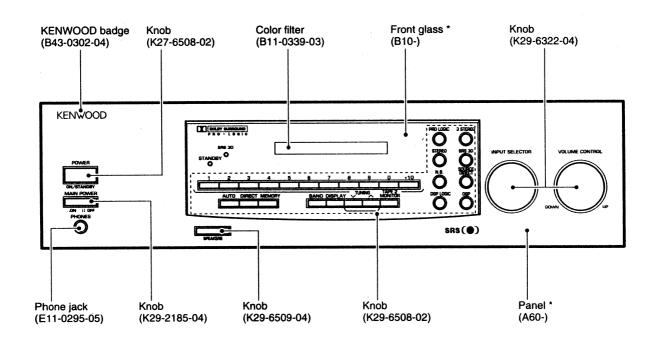
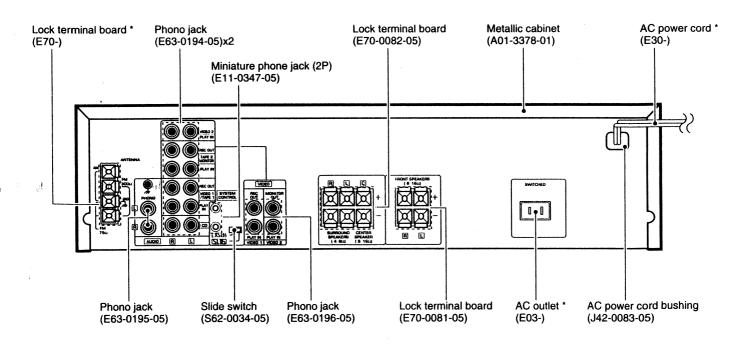
AUDIO-VIDEO SURROUND RECEIVER

105VR/KR-V5090 SERVICE MANUAL

KENWOOD

© 1997-01/B51-5270-00 (K/K) 3840



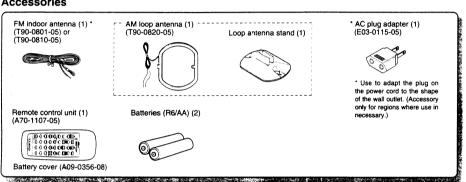


105VR/KR-V5090 **CONTENTS/ACCESSORIES**

Contents

CONTENTS/ACCESSORIES2	PC BOARD7
DISASSEMBLY FOR REPAIR2	SCHEMATIC DIAGRAM13
CONTROLS3	EXPLODED VIEW30
ADJUSTMENT5	PARTS LIST31
WIRING DIAGRAM6	SPECIFICATIONS39

Accessories

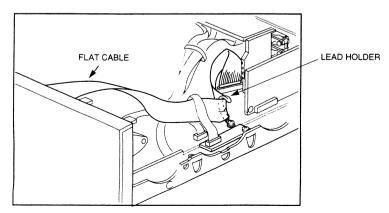


^{*} Refer to parts list

DISASSEMBLY FOR REPAIR

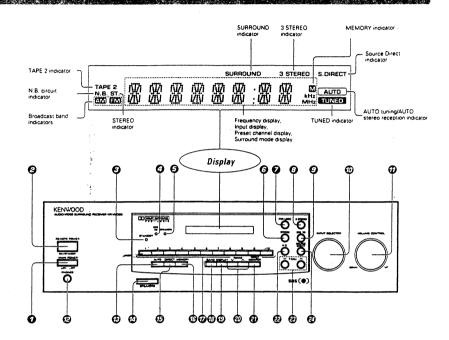
*** CAUTION FOR REPAIR**

Keep a flat cable away from heatsink for safety, and tie it with the lead holder as illustration if disassembled for repair.



105VR/KR-V5090 **CONTROLS**

Control and indicators



MAIN POWER switch

Press to switch the main power ON/OFF. @REMOTE POWER key

Press to switch over the STANDBY/ON modes when the MAIN POWER is ON.

STANDBY indicator

OSRS 3D indicator

Lights when the SRS 3D system is ON

O SPEAKERS indicator Lights when the speakers are ON.

GSTEREO key

Press to turn the surround mode OFF.

ODOLBY PRO LOGIC key ODOLBY 3 STEREO key

OSRS 3D key

@INPUT SELECTOR knob

Rotate to select the input source

OVOLUME CONTROL knob

@PHONES lack

Plug headphones into this jack

@ AUTO key

Press to select the tuning mode from the auto tuning and manual tuning modes.

Press and hold the AUTO key for more than 2 seconds to switch the VIDEO1 display to another input display

OSPEAKERS key

Press to turn the speakers ON and OFF. @ DIRECT key

Press when tuning a broadcast station by

entering the digits of its frequencies. **OMEMORY** key

Press when registering a broadcast sta-

tion in the preset memory. @Numeric keys (1 to 0, +10)

@BAND kev

Press to switch the broadcasting band.

ODISPLAY key

Press to switch the displayed information between the surround mode display and input selector display.

Press and hold the DISPLAY key for more than 2 seconds to switch the display brightness

@TUNING keys (∨,∧)

Press to select a radio station.

@TAPE 2 MONITOR key

Press to monitor the sound being recorded, etc.

@N.B. kev

Press to compensate for the insufficiency in the base sound.

②P.CALL keys (∨, ∧)

Press to select one of the preset sta-

@SOURCE DIRECT key

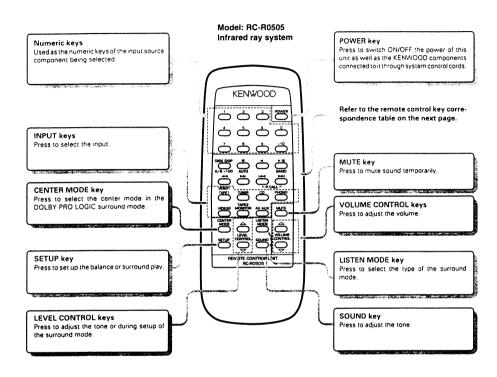
Press to listen to the source sound with a higher sound quality.

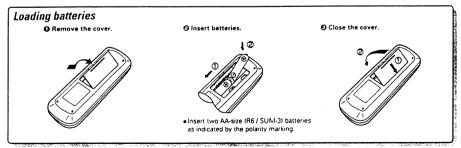
STANDBY position of the REMOTE POWER key

When the STANDBY indicator of this unit is lit after its power cord has been plugged into wall outlet and the MAIN POWER switch has been pressed to ON, a small amount of current is supplied to back up the internal memory of the unit. This status is referred to as the standby mode of the unit. While the STANDBY indicator is lit, the POWER can be switched between ON and STANDBY from the remote control unit. When the unit is not to be used for a long period of time, press the MAIN POWER key to OFF.

105VR/KR-V5090 CONTROLS

Operation of remote control unit





105VR/KR-V5090

ADJUSTMENT

FM SECTION INPUT SELECTOR: FM MODE

X05-4700

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
	DIOODUM TOD	(A) 98 MHZ, 60dBµ (ANT INPUT)	Connect a DC	: : : MCNO	L31	0V	(a)
1	1 DISCRIMINATOR	1 kHz, ±40 kHz DEV : E/T/Q TYPE 1 kHz, ±75 kHz DEV (OTHER TYPE)	voltmeter between pin 1 and pin2 of CN2.	98.0 MHz	L32 (EXCEPT K/P	Minimum distortion.	(a)
2	DISTORTION (STEREO)	(B) 98 MHz, 60dBµ (ANT INPUT) 1 kHz, ±40 kHz DEV E/T/O TYPE 1 kHz, ±67.5 kHz DEV PILOT ±7.5 kHz DEV OTHER TYPE	(E)	AUTO 98.0 MHz	T 1 (A1)	Minimum distortion.	(a)

X05-4690

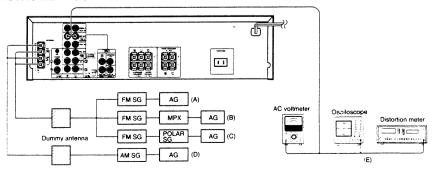
NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	DISTORTION (STEREO)	(B) 98 MHz, 60dBµ (ANT INPUT) 1 kHz, ±67.5 kHz DEV PILOT: ±7.5 kHz DEV	(E)	AUTO 98.0 MHz	T1 (A1)	Minimum distortion.	(a)

POLAR UNIT

X04-1313 Q TYPE (65MHz~74MHz BAND)

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	vco	(C) 69 MHz, 60dBµ (ANT INPUT) 1 kHz, 0 kHz DEV SUB, 0 kHz DEV	Connecta frequency counter to VCO monitor (CN2).	AUTO 69 MHz	VR2	Adjust it the frequency counter reads 31.25 kHz ±100 kHz.	
2	SEPARATION	(C) 69 MHz, 60 dBµ (ANT INPUT) 1 kHz, 40 kHz DEV SUB, 10 kHz DEV Select : L or R	Connecta oscilloscope to TUNER OUT(CN6).	AUTO 69 MHz	TC 1	Minimum crosstalk.	THE CONTRACTOR MANAGEMENT CO.
3	SEPARATION	(C) SAME AS ABOVE	Connecta oscilloscope to TUNER OUT(CN6).	AUTO 69 MHz	VR 1	Minimum crosstalk.	

INSTRUMENT CONNECTION

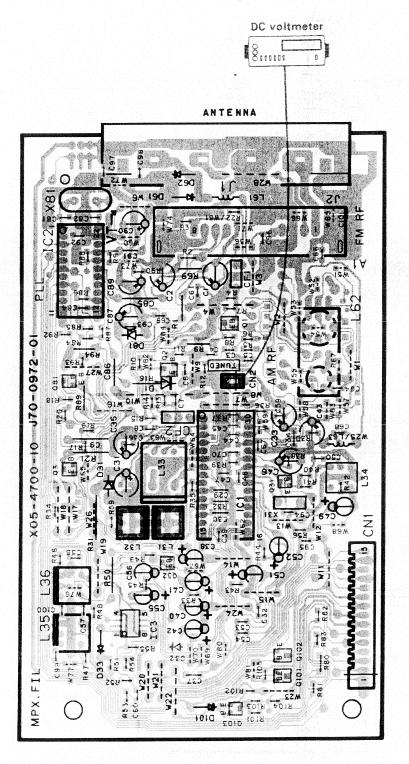


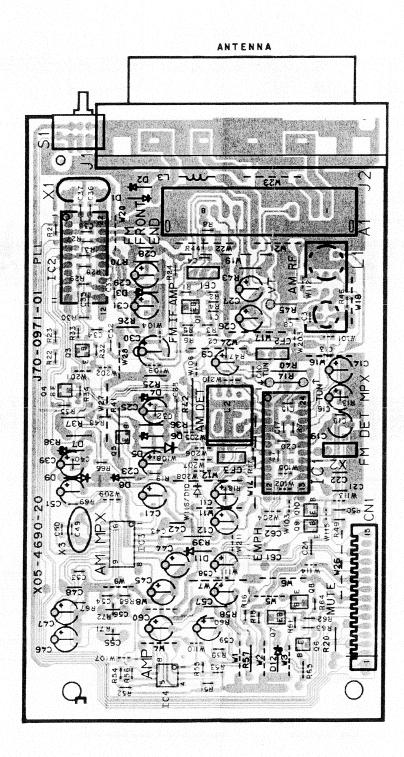
5

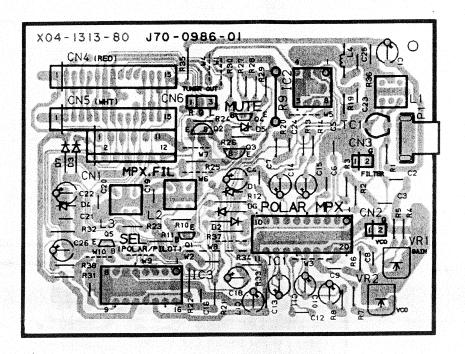
PC BOARD(Component side view)

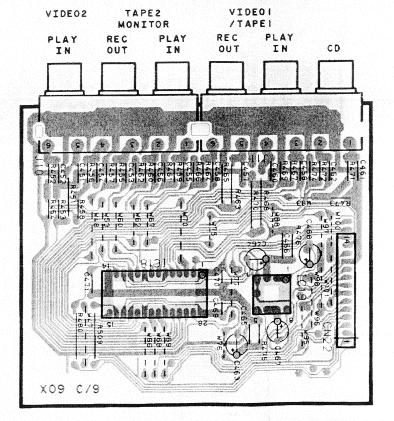
(a) Dscriminator: L31 0V

L32 Minimum distortion. (Except K,P)

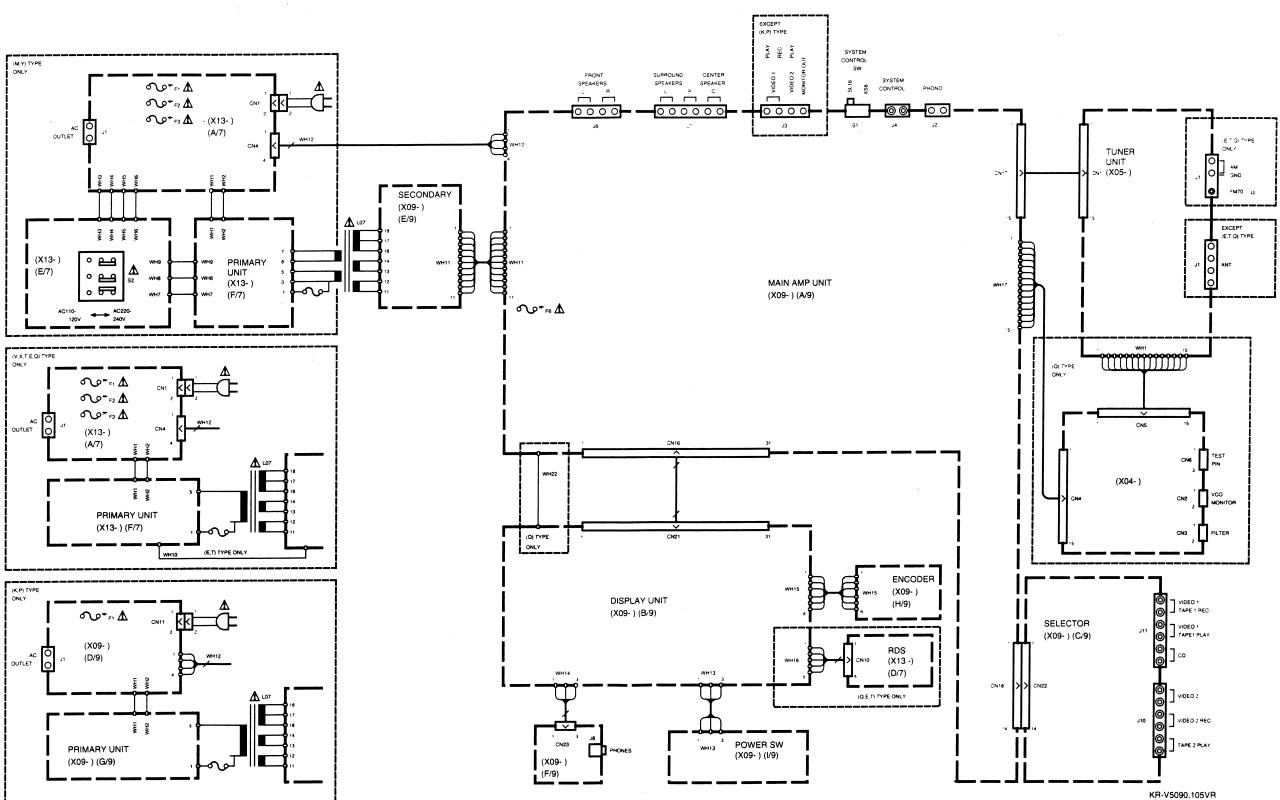


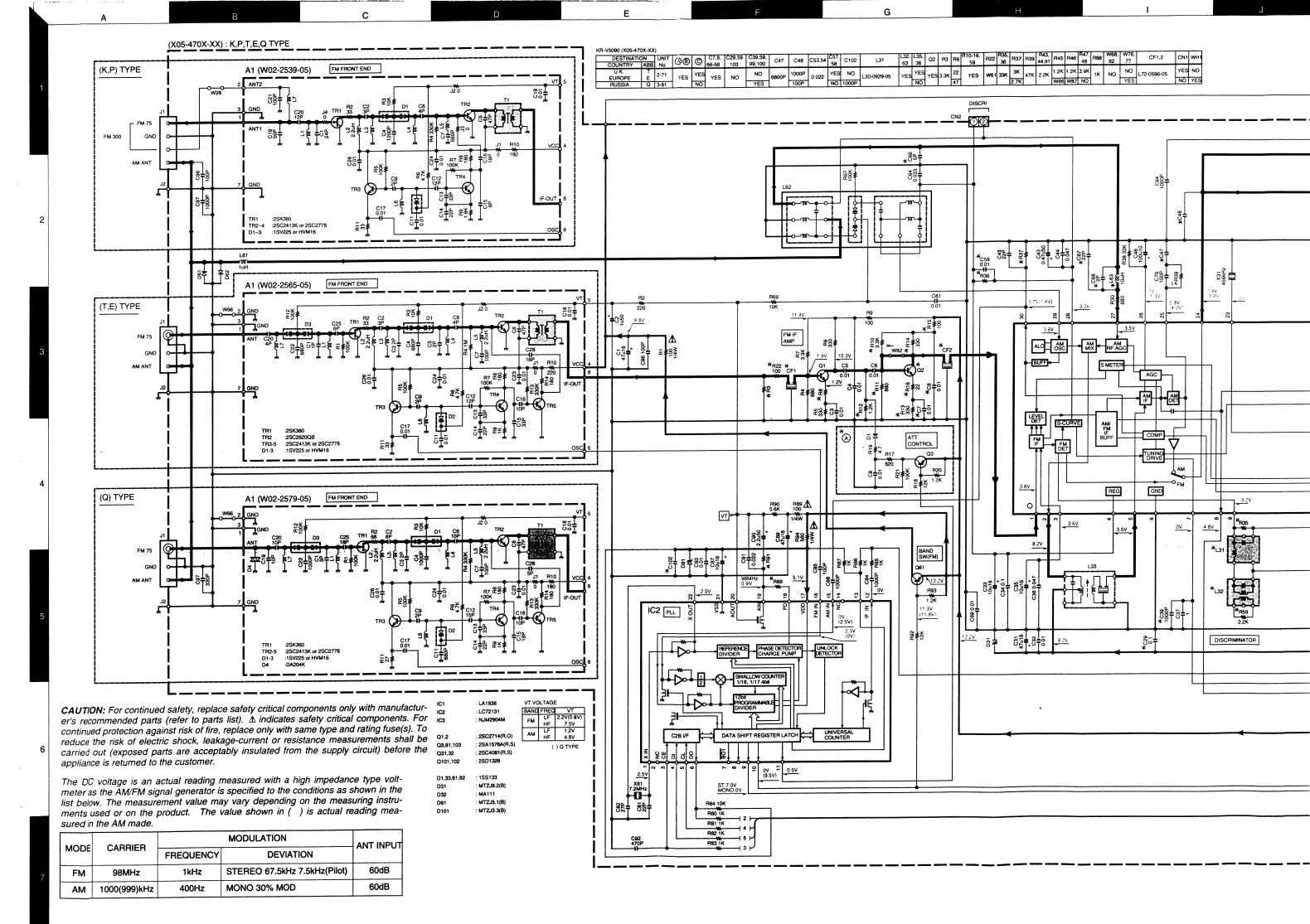


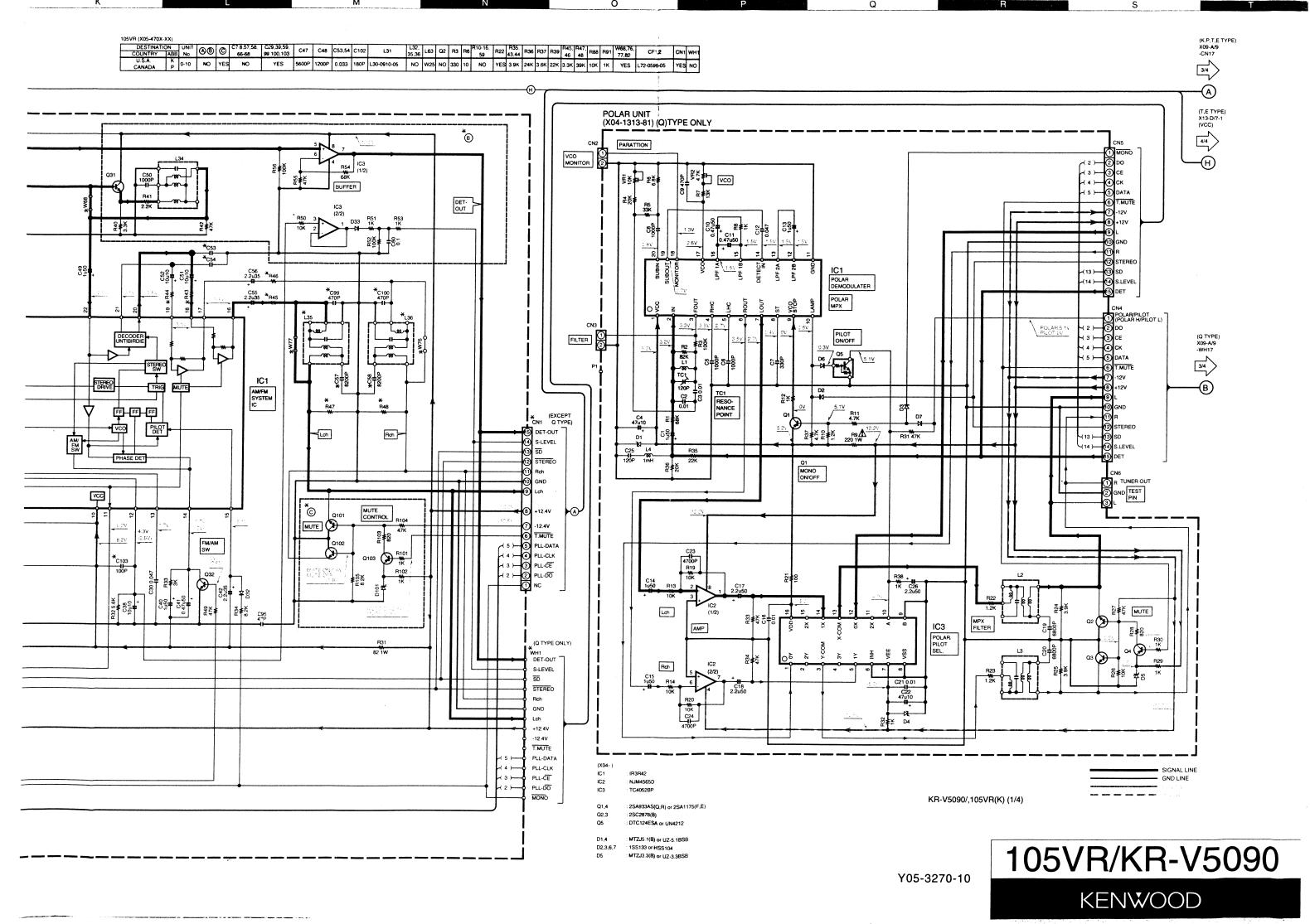




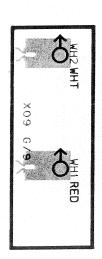


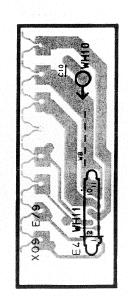


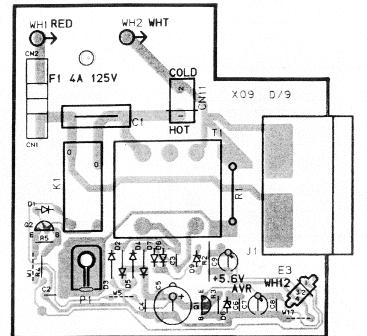


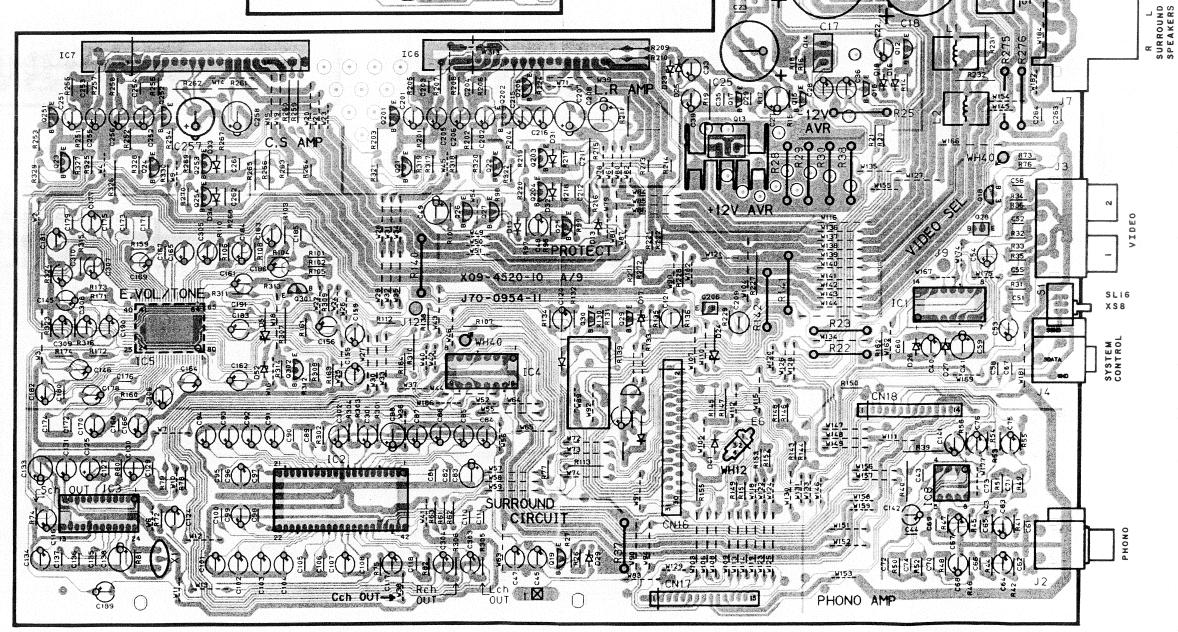


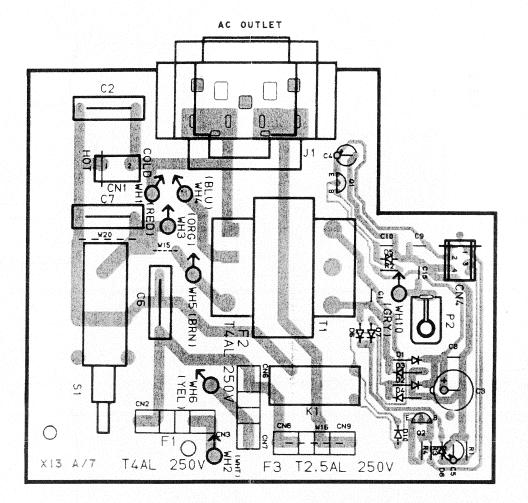
PC BOARD(Component side view)

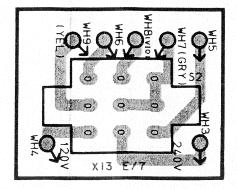


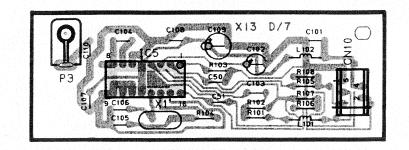


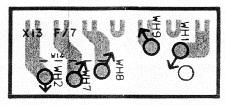


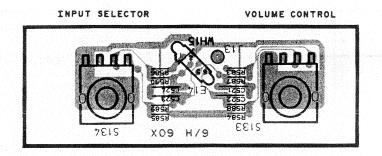


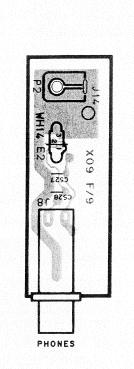


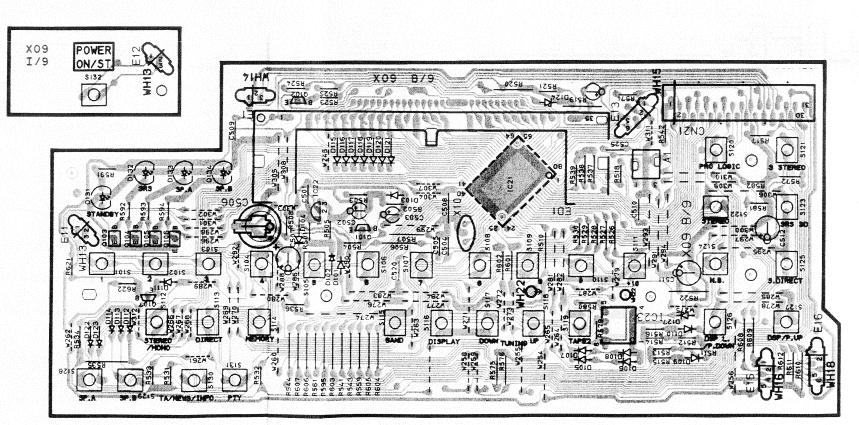


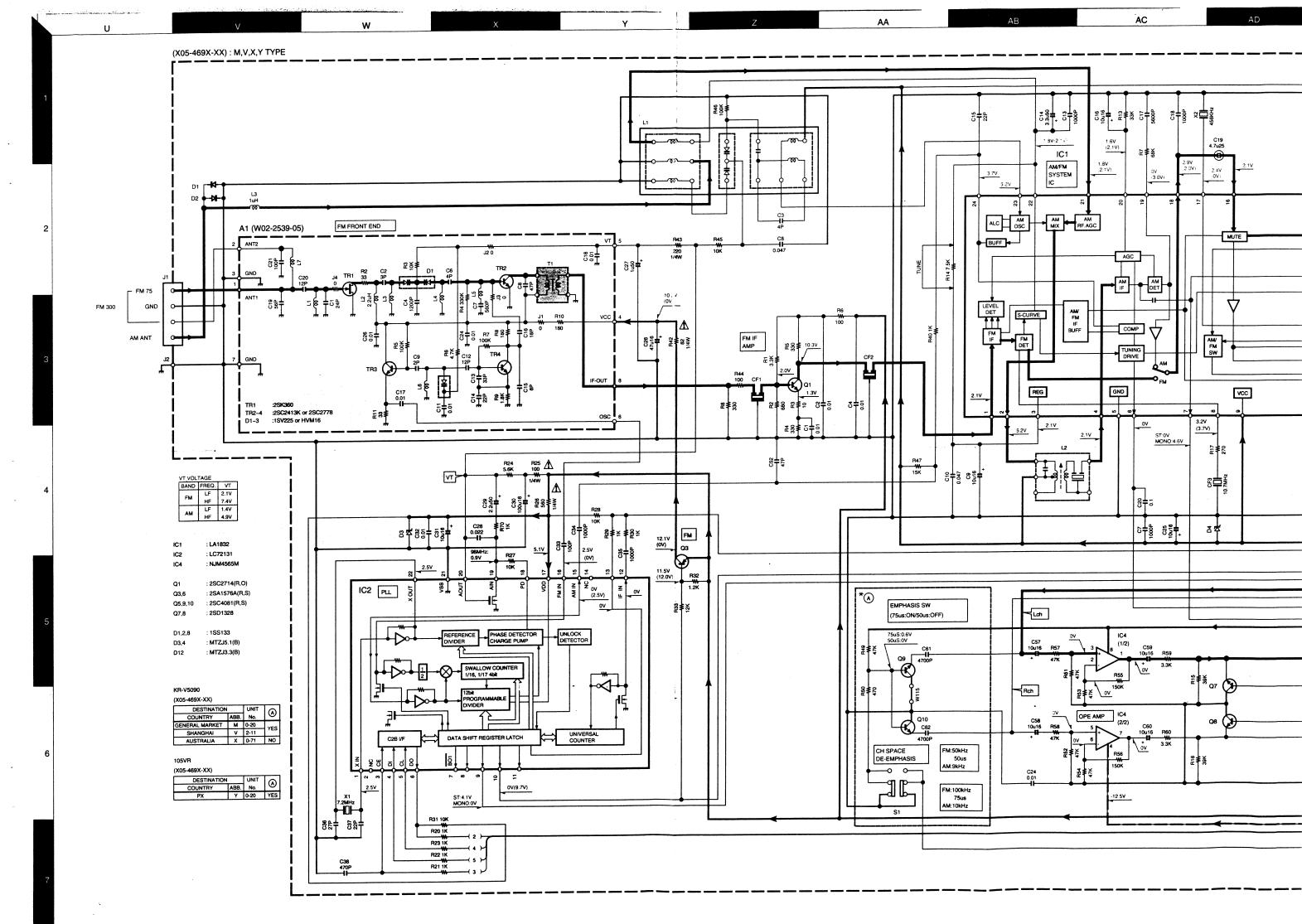


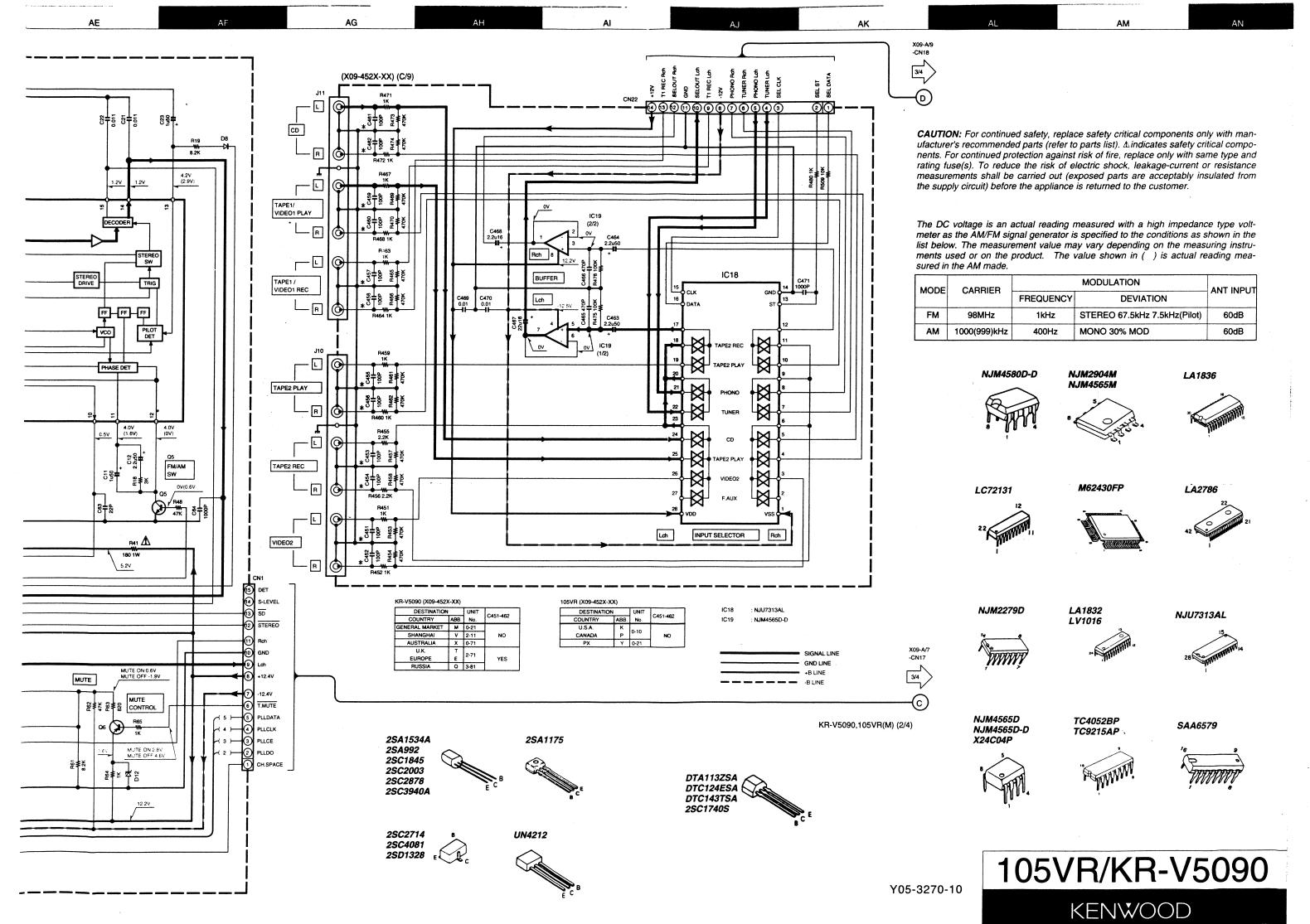


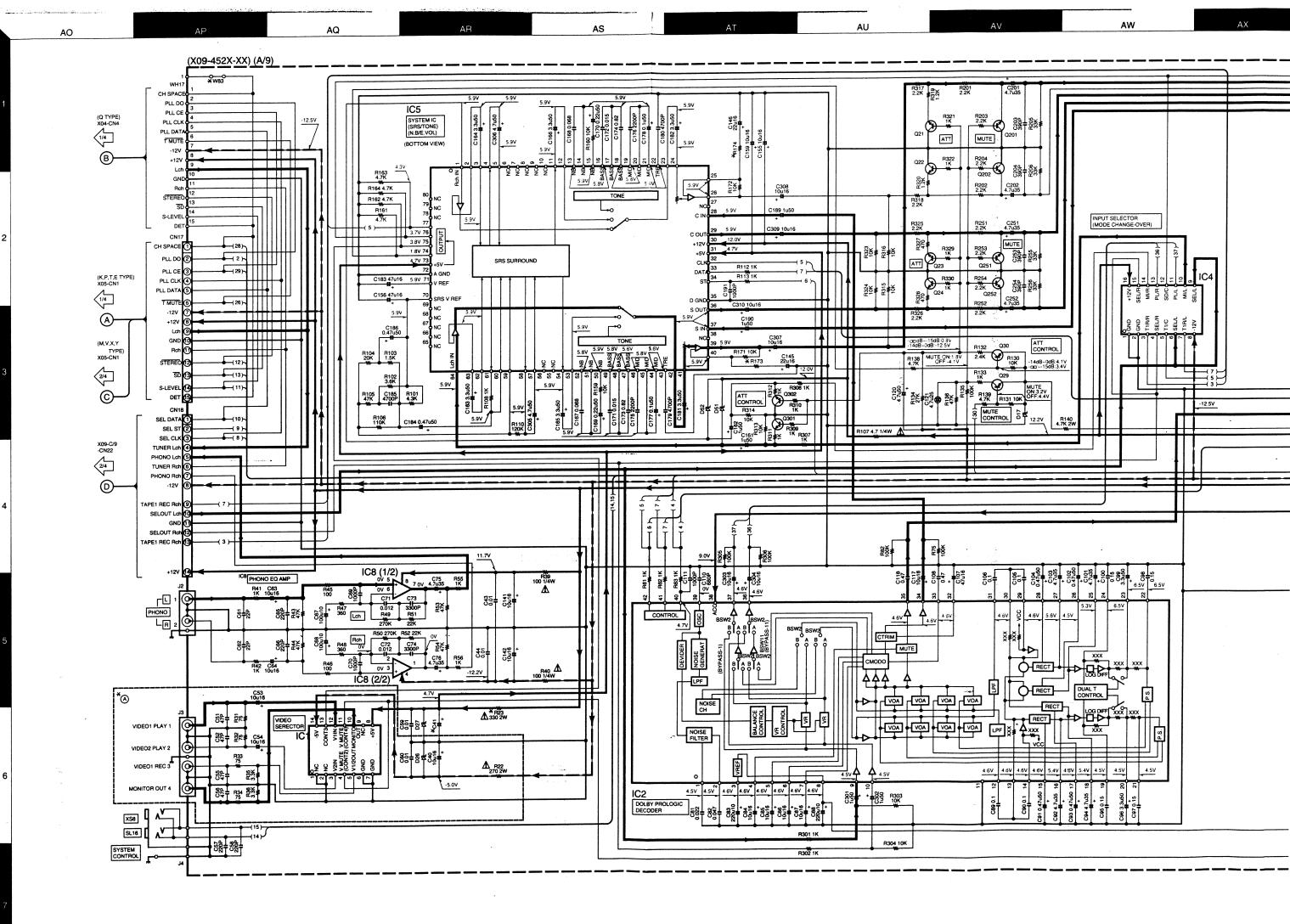


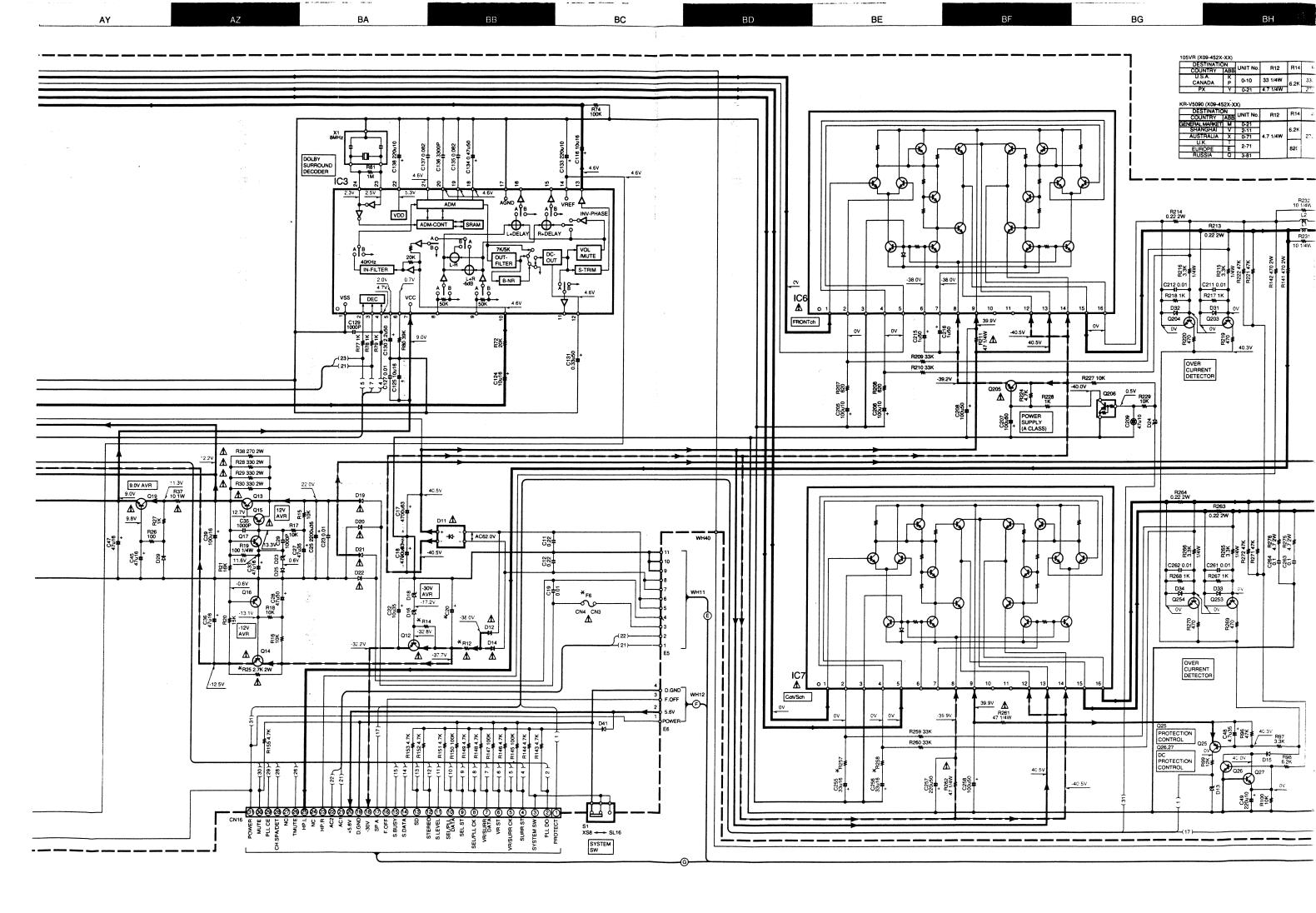


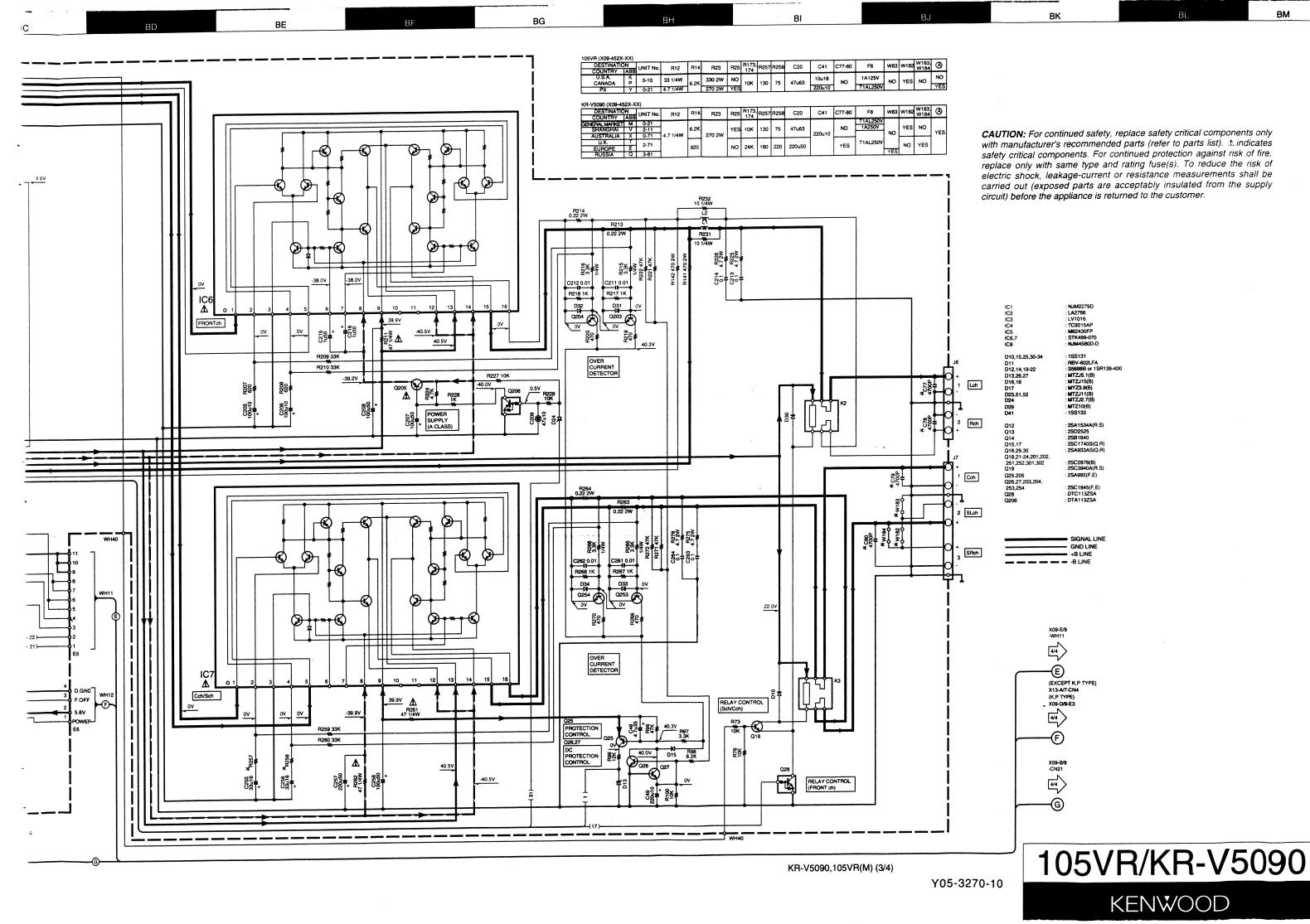


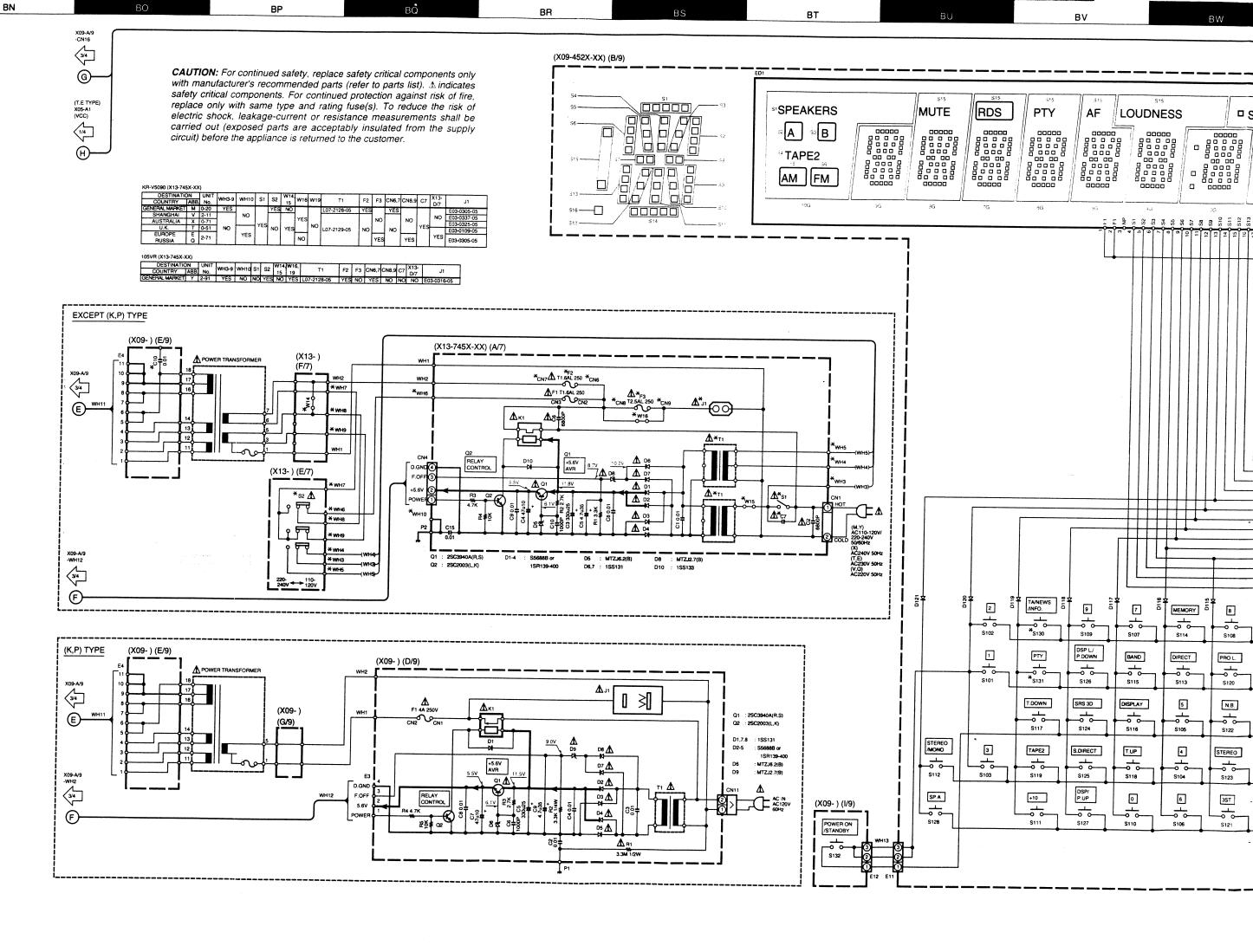


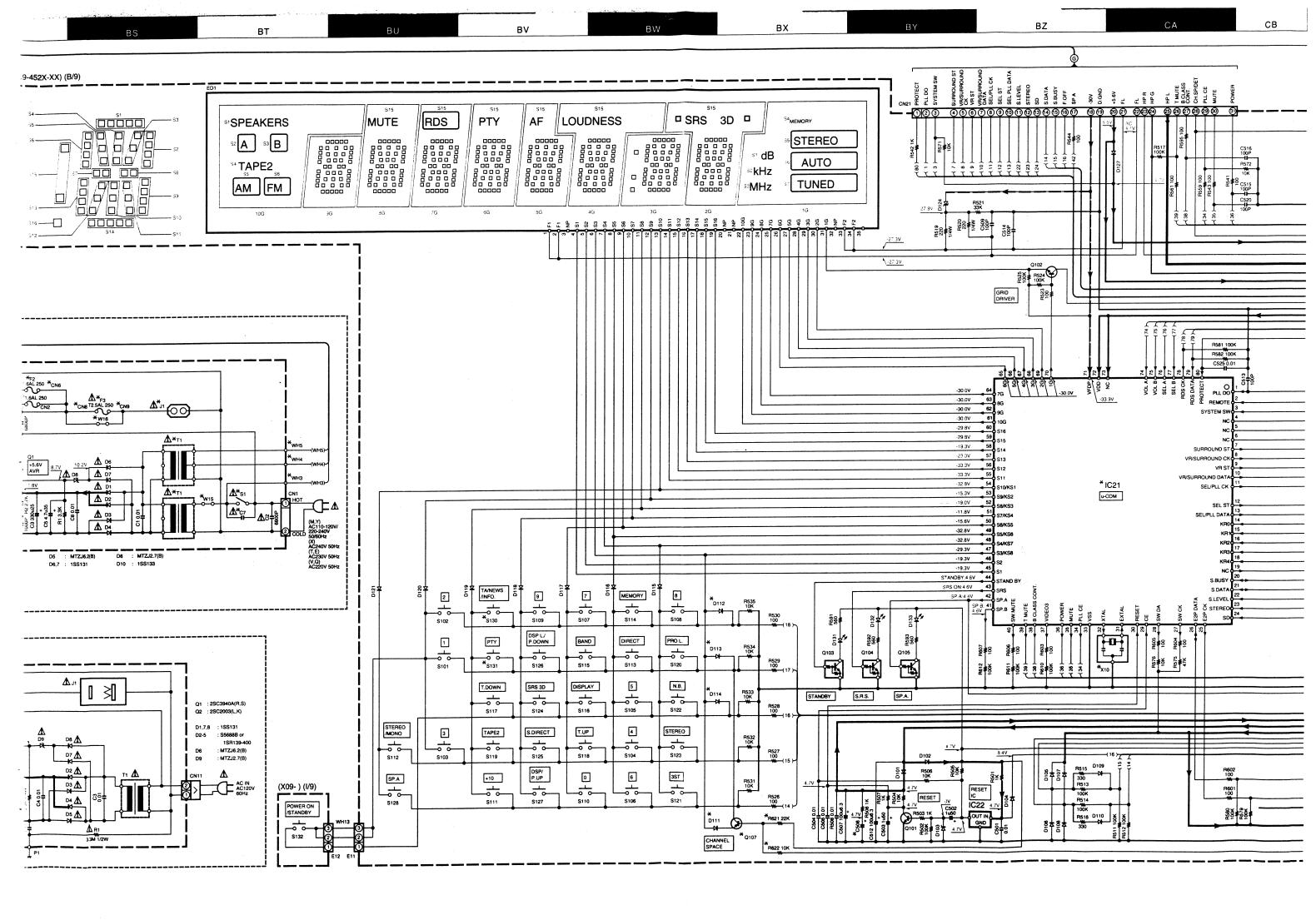


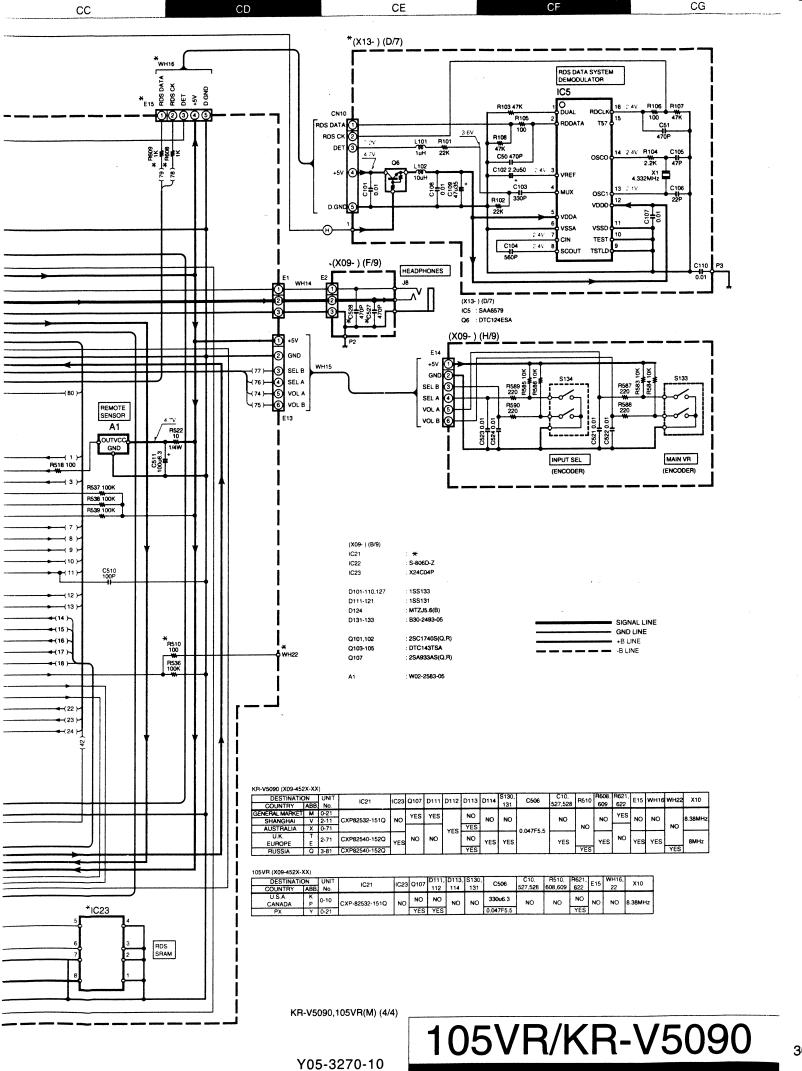






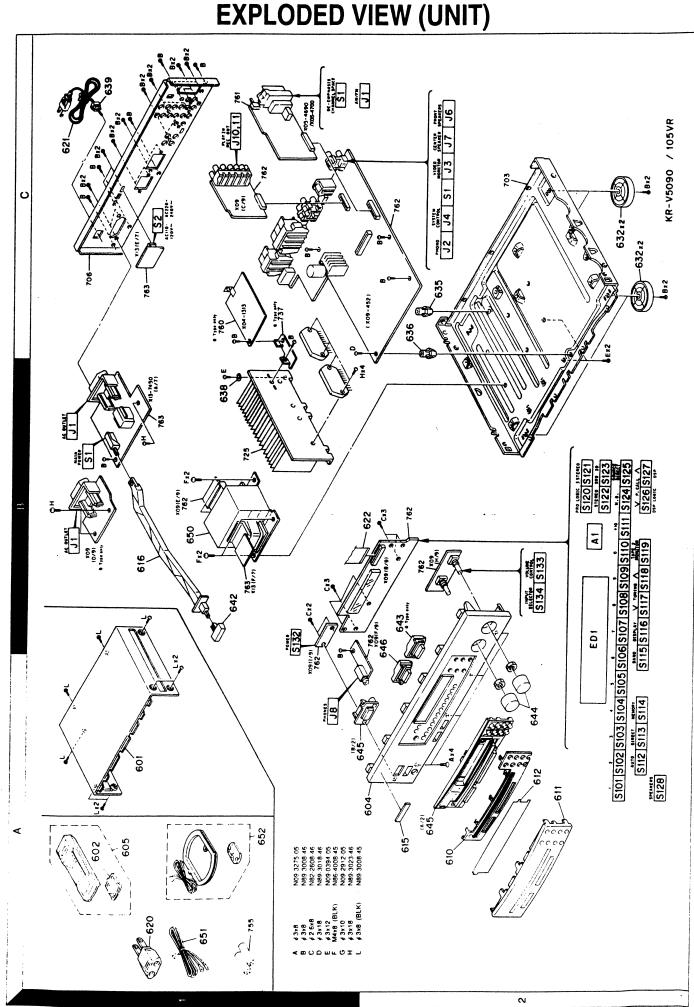






KENWOOD

105VH/KH-V5090



Parts with the exploded numbers larger than 700 are not supplied.

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- Re- nation mark
			105	VR/KR-V5090	
601	1A	*	A01-3378-01	METALLIC CABINET	
602	iA	1	A09-0356-08	BATTERY COVER	
604	2A	*	A60-1023-01	PANEL	KPY
604	2A	*	A60-1024-01	PANEL	MVX
604	2A	*	A60-1025-01	PANEL	TEQ
605	1A	*	A70-1107-05	REMOTE CONTROLLER ASSY	
610	2A	1	B07-2298-02	ESCUTCHEON	LONG BOX
611	2A	*	B10-2358-02	FRONT GLASS	KPYMVX
611	2A	*	B10-2359-02	FRONT GLASS	TEQ
612	2A	*	B11-0339-03	COLOR FILTER	
615	2A	1	B43-0302-04	KENWOOD BADGE	
-		1	B46-0096-53	WARRANTY CARD	X
-	1	1	B46-0197-00	QUESTIONNAIRE CARD	K
-	-		B46-0310-03	WARRANTY CARD	TEQ
-	1		B46-0329-03	WARRANTY CARD	V
-	1	1	B46-0330-03	WARRANTY CARD	KY
-	1	-	B46-0336-03	WARRANTY CARD	P
l	1	1	B58-0513-04 B58-0964-13	CAUTION CARD (PRESET220-240)	Y KY
•			D30-0804-13	CAUTION CARD (OL)	N'
-			B58-0965-13	CAUTION CARD (T,X)	XT_
-		1	B58-0966-13	CAUTION CARD (ELM,PL)	MVE
-	1	1	B58-0967-03	CAUTION CARD (PL)	P
: -		1	B58-1526-03 B59-1104-00	CAUTION CARD (P4,ORI,A4,1(Q)	Q
1		١.	Ben 2000 00	INICTONICTION MANIEM (TNC)	KPY
-		*	B60-2983-00 B60-2984-00	INSTRUCTION MANUAL (ENG)	P
-	1	*	B60-2985-00	INSTRUCTION MANUAL(FRE)	ĮĘ
1	1	*	B60-2986-00	INSTRUCTION MANUAL(ITY/SPN)	E
ļ.	1	*	B60-2987-00	INSTRUCTION MANUAL(GEN)	Ē
l.		*	B60-2988-00	INSTRUCTION MANUAL(ENG)	Т
l.		*	B60-2989-00	INSTRUCTION MANUAL(SPN)	M
l <i>-</i>			B60-2990-00	INSTRUCTION MANUAL (CHN)	ΙŸ
ŀ		*	B60-2991-00	INSTRUCTION MANUAL(SPN) INSTRUCTION MANUAL(CHN) INSTRUCTION MANUAL(TWN)	·M
-	-	*	B60-2992-00	INSTRUCTION MANUAL(PLD/RUS)	[Q
ļ.		*	B60-3072-00	INSTRUCTION MANUAL(ENG)	мх
616	1B		D21-1829-13	EXTENSION SHAFT	MVXTEQ
620	1A		E03-0115-05	AC PLUG ADAPTER	M
621	1C	1	E30-2605-05	AC POWER CORD	Y
621	1C		E30-2717-05	AC POWER CORD	X
621	1C		E30-2721-05	AC POWER CORD	
621	1C		E30-2824-05	AC POWER CORD	V
621	1C	*	E30-2842-05	AC POWER CORD	MEQ
621	1C	*	E30-2849-05	AC POWER CORD	KP
622	2B	*	E35-1720-05	FLAT CABLE	
 .	1		G11-2066-04	CUSHION	
	1		G11-2221-04	CUSHION	
	1		G11-2242-04	CUSHION	
-	1	ł	G11-2251-04	CUSHION	
1	1	-	U10 7050 10	POLVETYPENE FOAMED FIXTURE	50
1.	-	*		POLYSTYRENE FOAMED FIXTURE POLYSTYRENE FOAMED FIXTURE	EQ KPYMVX
1.	i	*	1	POLYSTYRENE FOAMED FIXTURE	EO
I	. [T	1	The state of the s	

L	:	Scandii	navia	
Y	:	PX(Far	East,	Hav
Y	;	AAFES	(Euro	pe)

Y: PX(Far East, Hawaii)

▲ indicates safety critical components.

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

4	_	
	-	

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- mark
- - -		*	H10-7251-12 H10-7252-12 H10-7253-12 H11-0080-04 H13-0231-04	POLYSTYRENE FOAMED FIXTURE POLYSTYRENE FOAMED FIXTURE POLYSTYRENE FOAMED FIXTURE POLYSTYRENE FOAMED BOARD CARTON BOARD	KPYMVX T T	
- - -		*	H25-0232-04 H25-0232-04 H25-0391-04 H25-0651-04 H50-2163-04	PROTECTION BAG (235X350X0.03) PROTECTION BAG (235X350X0.03) PROTECTION BAG PROTECTION BAG ITEM CARTON CASE	EQ KPYMVX T KPY	
- - -		* * * *	H50-2164-04 H50-2273-04 H50-2274-04 H50-2309-04 H50-2310-04	ITEM CARTON CASE	T M V XE Q	
632 635 636 638 638	2C 2C 2C 1B 1B	*	J02-1148-13 J19-5787-04 J19-5788-04 J30-0466-04 J30-0466-04	FOOT (D=46,H=14.5) UNIT HOLDER UNIT HOLDER SPACER SPACER	Q YMVXTE	
639 - - - -	10		J42-0083-05 J21-6424-04 J61-0070-05 J61-0070-05 J61-0307-05	POWER CORD BUSHING MOUNTING HARDWARE WIRE BAND WIRE BAND WIRE BAND	Q Q YMVXTE	
642 643 644 645 646	1B 2B 2A 2A 2B	*	K27-2185-04 K29-6321-04 K29-6322-04 K29-6508-02 K29-6509-04	KNOB (BUTTON) KNOB KNOB KNOB KNOB	MVXTEQ TEQ	
650 650 650 650 650	1B 1B 1B 1B 1B	***	L07-2243-05 L07-2244-05 L07-2245-05 L07-2246-05 L07-2294-05	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	KP YM X TE V	
650	1B	*	L07-2295-05	POWER TRANSFORMER	Q	
651 651 652	1A 1A 1A		T90-0801-05 T90-0810-05 T90-0820-05	LEAD WIRE ANTENNA LEAD WIRE ANTENNA LOOP ANTENNA	KPYMVX TEQ	
			MPX(X04-	-1313-81) Q type only		
C1 C2 ,3 C4 C5 ,6 C7		*	CE04LW1H010M C91-1566-05 CE04LW1A470M CQ93FMG1H102J CC45FSL1H331J	ELECTRO 1.0UF 50WV FILM 0.01UF J ELECTRO 47UF 10WV MYLAR 1000PF J CERAMIC 330PF J		
C8 C9 C10,11 C12 C13-15			CK45FB1H102K CC93FCH1H471J CE04LW1HR47M CK45FF1H473Z CE04LW1H010M	CERAMIC		
C16 C17 ,18 C19 ,20 C21			CK45FF1H103Z CE04LW1H2R2M CQ93FMG1H682J CK45FF1H103Z	CERAMIC 0.010UF Z ELECTRO 2.2UF 50WV MYLAR 6800PF J CERAMIC 0.010UF Z		

L : Scandinavia Y : PX(Far East, Hawaii) Y: AAFES(Europe)

K: USA P: Canada T: Europe E: Europe X: Australia M: Other Areas

R: Mexico G: Germany

K: USA T: Europe E: Europe

P : Canada X: Australia M: Other Areas

R : Mexico G: Germany

Ref. No

C23,24

Č25

C26

TC1

CN2.3

CN4

CN5

CN6

L2 ,3

L4

R9

VR₁

VR₂

D1

D1

וח⊿

D2 ,3

D2 ,3

D5 D5 D6 ,7

D6 .7

IC1 IC2 IC3

Q1 Q1

Q4

Q4 Q5 Q5

Q2 .3

C1 ,2

C3

C4

C8

C9 C10 C11 C12

C13

C14

C15 C16 C17

C19

C20

C23

C21 ,22

Add- New ress Parts

Parts No.

CE04LW1A470M CQ93FMG1H472J CC45FSL1H121J

CE04LW1H2R2M

C05-0463-05

E40-4871-05

E40-4372-05

E40-3259-05

E40-4872-05

L39-1350-05

L79-1236-05 L40-1021-14

R12-3685-05

R12-1619-05

MTZJ5.1(B)

UZ-5.1BSB

MTZJ5.1(B)

UZ-5.1BSB

MTZJ3.3(B)

UZ-3.3BSB

HSS104

1SS133

NJM4565D

TC4052BP

2SC2878(B)

DTC124ESA

UN4212

2SA1175(F,E) 2SA933AS(Q,R)

2SA1175(F,E) 2SA933AS(Q,R)

CK73FB1H103K

CK73FB1H103K

CK73FB1H102K

CK73FB1H473K

CE04LW1C100M

CK73FB1H473K

CE04LW1H010M

CE04LW1H2R2M

CK73FB1H102K

CE04LW1H3R3M

CC73FCH1H220J

CE04LW1C100M

CK73FB1H562K

CK73FB1H102K

CK73FB1E104K

CQ92FM1H113J

CE04HW1E4R7M

CC73FCH1H040C

* IR3R42

HSS104

1SS133

RS14KB3A221J

ELECTRO

CERAMIC

ELECTRO

PIN ASSY

PIN ASSY

PIN ASSY

PIN ASSY

PEAKING COIL

ZENER DIODE

ZENER DIODE

ZENER DIODE

ZENER DIODE

ZENER DIODE

ZENER DIODE

ANALOGUE IC

ANALOGUE IC

TRANSISTOR

TRANSISTOR

TRANSISTOR

TRANSISTOR

TUNER(X05-4690-20) Y,M,X,V type only

CHIP C

MYLAR

NP-ELEC

ELECTRO

ELECTRO

ELECTRO

ELECTRO

ELECTRO

ELECTRO

IC(4CH MPX/DE-MPX)
TRANSISTOR

DIGITAL TRANSISTOR DIGITAL TRANSISTOR

0.010UF

0.010UF

1000PF

0.047UF

0.047UF

10UF

1.0UF

2:2UF

3.3UF

22PF

10UF

5600PF

1000PF

4.7UF

0.10UF

1.0UF

0.011UF

1000PF

K

ĸ

16WV

50WV

50WV

50WV

16WV

25WV

50WV

4.0PF

DIODE

DIODE

DIODE

DIODE

FL-PROOF RS 22 TRIMMING POT.(10K)

TRIMMING POT.(4.7K)

LC FILTER

MYLAR

Description

47UF

4700PF

120PF

2.2UF

CERAMIC TRIMMER CAPACITOR(120P

SMALL FIXED INDUCTOR(1.0MH,K)

220

10WV

50WV

J 1W

Re-marks

YMV

PARTS LIST	

Ref. No	Add- ress	New	Parts No.		Description		
C24 C25 C26 C27 C28			CK73EB1H103K CE04LW1C100M CE04LW1C470M CE04LW1H010M CQ92FM1H223J	CHIP C ELECTRO ELECTRO ELECTRO MYLAR	0.010UF 10UF 47UF 1.0UF 0.022UF	16	SWV SWV
C29 C30 C31 C32 C33			CE04LW1H2R2M CE04LW1C101M CE04LW1C100M CK73FB1H103K CC73FSL1H101J	ELECTRO ELECTRO ELECTRO CHIP C CHIP C	2.2UF 100UF 10UF 0.010UF 100PF	16	WV WV
C34 ,35 C36 C37 C38 C52			CK73FB1H102K CC73FCH1H270J CC73FCH1H220J CK73FB1H471K CC73FCH1H470J	CHIP C CHIP C CHIP C CHIP C CHIP C	1000PF 27PF 22PF 470PF 47PF	KJJKJ	
C57 -60 C61 ,62 C63 C64			CE04LW1C100M CQ92FM1H472J CC73FCH1H220J CK73FB1H102K	ELECTRO MYLAR CHIP C CHIP C	10UF 4700PF 22PF 1000PF	16 J J K	wv
CN1 J1	2C	*	E40-9831-05 E70-0079-05	SOCKET FOR PIN LOCK TERMINAL	ASSY BOARD		
J2		*	F10-1074-04	SHIELDING PLATI	Ę ,		
CF1 ,2 CF3 L1 L2 L3			L72-0531-05 L72-0593-05 L39-1348-05 L30-0911-05 L40-1091-17	CERAMIC FILTER CERAMIC FILTER COMBINATION CO AM IFT SMALL FIXED IND		H)	
X1 X2		*	L77-2187-05 L78-0295-05	CRYSTAL RESON RESONATOR	ATOR(7.2M (456KHZ)	HZ)	
R1 R2 R3 R4 ,5 R6			RK73FB2A332J RK73FB2A681J RK73FB2A100J RK73FB2A331J RK73FB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	3.3K 680 10 330	J J J J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W
R7 R8 R13 R15 ,16 R17			RK73FB2A683J RK73FB2A331J RK73FB2A333J RK73FB2A393J RK73FB2A271J	CHIP R CHIP R CHIP R CHIP R CHIP R	68K 330 33K 39K 270)))	1/10W 1/10W 1/10W 1/10W 1/10W
R18 R19 R21 -23 R24 R25			RK73FB2A302J RK73FB2A822J RK73FB2A102J RK73FB2A562J RD14NB2E101J	CHIP R CHIP R CHIP R CHIP R RD	3.0K 8.2K 1.0K 5.6K 100	1	1/10W 1/10W 1/10W 1/10W 1/10W
726 727 ,28 729 ,30 731			RD14NB2E561J RK73FB2A103J RK73FB2A102J RK73FB2A103J	RD CHIP R CHIP R CHIP R	560 10K 1.0K 10K	J J J	1/4W 1/10W 1/10W 1/10W
R32 R33 R41 R42 R43			RK73FB2A122J RK73FB2A123J RS14KB3A181J RD14NB2E820J RD14NB2E221J	CHIP R CHIP R FL-PROOF RS RD RD	1.2K 12K 180 82 220	1111	1/10W 1/10W 1W 1/4W 1/4W

L : Scandinavia	
Y : PX(Far East, Hawaii)	
Y: AAFES(Europe)	

CE04LW1H010M K: USA

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X : Australia M : Other Areas

[♠] indicates safety critical components.

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Teile ohne Parts No. werden nicht geliefert.

Ref. No	Add- ress	New Parts	Parts No.	D	escription			Desti- nation	Re- marks
R44 R46 R47 R48 R48 ,49			RK73FB2A101J RK73FB2A104J RK73FB2A153J RK73FB2A473J RK73FB2A473J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 100K 15K 47K 47K	j	1/10W 1/10W 1/10W 1/10W -1/10W	X YMV	
R50 R51 -54 R55 ,56 R59 ,60 R61			RK73FB2A471J RK73FB2A473J RK73FB2A154J RK73FB2A332J RK73FB2A822J	CHIP R CHIP R CHIP R CHIP R CHIP R	470 47K 150K 3.3K 8.2K	j j j j	1/10W 1/10W 1/10W 1/10W 1/10W	YMV	
R62 R63 R64 R65 W101-106			RK73FB2A473J RK73FB2A821J RK73FB2A102J RK73EB2B102J R92-0670-05	CHIP R CHIP R CHIP R CHIP R CHIP R	47K 820 1.0K 1.0K 0 OHM	J J	1/10W 1/10W 1/10W 1/8W		
W108-114 W108-116 W116 W201 W202			R92-0670-05 R92-0670-05 R92-0670-05 R92-0679-05 R92-0670-05	CHIP R CHIP R CHIP R CHIP R CHIP R	0 OHM 0 OHM 0 OHM 0 OHM 0 OHM			X YMV X	
W203-208 W210,211			R92-0679-05 R92-0679-05	CHIP R CHIP R	0 OHM 0 OHM				
S1	1C		S62-0034-05	SLIDE SWITCH	(DE-EMP	HAS	IS)	YMV	
D1 ,2 D3 ,4 D8 D12 IC1			1SS133 MTZJ5.1(B) 1SS133 MTZJ3.3(B) LA1832	DIODE ZENER DIODE DIODE ZENER DIODE ANALOGUE IC					
IC2 IC4 Q1 Q3 Q5			LC72131 NJM4565M 2SC2714(R,O) 2SA1576A(R,S) 2SC4081(R,S)	MOS-IC IC(OP AMP X2) TRANSISTOR TRANSISTOR TRANSISTOR					
Q6 Q7 ,8 Q9 ,10			2SA1576A(R,S) 2SD1328 2SC4081(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR				YMV	
A1		_	W02-2539-05	FM FRONT-END					
		ΓU	NER(X05-47	00-10) K,P,	T,E,Q ty	/pe	only		,
C1 C2 C3 -6 C3 -8 C9			CE04LW1C470M CE04LW1H010M CK73FB1H103K CK73FB1H103K C91-0769-05	ELECTRO ELECTRO CHIP C CHIP C CERAMIC	47UF 1.0UF 0.010UF 0.010UF 0.010UF		wv wv	KP TEQ TEQ	
C29 C30 C31 C32 C33			CK73EB1E104K CK73EB1E473K CE04LW1C470M CK73FB1H103K CE04LW1C100M	CHIP C CHIP C ELECTRO CHIP C ELECTRO	0.10UF 0.047UF 47UF 0.010UF 10UF	K	wv wv	KP	
C34 C35 C36 C37 C38			CK73EB1E104K CE04LW1C100M CK73FB1E473K CK73EF1E105Z C90-3217-05	CHIP C ELECTRO CHIP C CHIP C ELECTRO	0.10UF 10UF 0.047UF 1.0UF 10UF	K Z	wv wv		

L : Scandinavia Y: AAFES(Europe)

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Ref. No	Add- ress	New Parts	Parts No.	De	escription		Desti- nation	Re- marks
C39 C40 C41 C42 C43			CK73FB1H102K C90-3253-05 C90-3251-05 C90-3240-05 CE04LW1HR47M	CHIP C ELECTRO ELECTRO ELECTRO ELECTRO	1000PF 1.0UF 0.47UF 2.2UF 0.47UF	K 50WV 50WV 35WV 50WV	KPQ	
C44 C45 C46 C47 C47			CK73FB1E473K CC73FCH1H220J CE04LW1A101M CK73FB1H562K CK73FB1H682K	CHIP C CHIP C ELECTRO CHIP C CHIP C	0 047UF 22PF 100UF 5600PF 6800PF	K J 10WV K K	KP TEQ	
C48 C48 C48 C49 C50			CC73FSL1H101J CK73FB1H102K CK73FB1H122K C90-3253-05 CK73FB1H102K	CHIP C CHIP C CHIP C ELECTRO CHIP C	100PF 1000PF 1200PF 1.0UF 1000PF	J K K 50WV K	Q TE KP TEQ	
C51 ,52 C53 ,54 C53 ,54 C55 ,56 C57 ,58			C90-3217-05 CK73FB1H223K CK73FB1H333K C90-3240-05 CK73FB1HB22K	ELECTRO CHIP C CHIP C ELECTRO CHIP C	10UF 0.022UF 0.033UF 2.2UF 8200PF	10WV K K 35WV K	TEQ KP TE	
C59 C60 C61 C64 C66	:		CK73FB1H103K CK73FB1E104K CK73FB1H103K CK73FB1H333K CC73FCH1H060D	CHIP C CHIP C CHIP C CHIP C CHIP C	0.010UF 0.10UF 0.010UF 0.033UF 6.0PF	K K K D	KPQ TEQ	
C67 C68 C69 C70 C81	S. C.		CC73FCH1H220J CC73FSL1H020C CK73FB1H103K CC73FSL1H101J CC73FCH1H220J	CHIP C CHIP C CHIP C CHIP C CHIP C	22PF 2.0PF 0.010UF 100PF 22PF	J C K J J	TEQ TEQ	
C82 C84 C85 C86 C87			CC73FCH1H270J CK73FB1H102K C91-0745-05 C91-0757-05 CE04LW1C100M	CHIP C CHIP C CERAMIC CERAMIC ELECTRO	27PF 1000PF 100PF 1000PF 10UF	J K K K 16WV		
C89 C90 C91 C92 C93	THE REPORT OF THE PARTY OF THE		CE04LW1C470M CE04LW1H2R2M CQ92FM1H223J CC73FSL1H471J CK73FB1H103K	ELECTRO ELECTRO MYLAR CHIP C CHIP C	47UF 2.2UF 0.022UF 470PF 0.010UF	16WV 50WV J J K		
C94 C95 C96 C97 C97			CK73FB1H102K CC73FCH1H470J CC73FSL1H101J CC73FSL1H331J CK73FB1H102K	CHIP C CHIP C CHIP C CHIP C CHIP C	1000PF 47PF 100PF 330PF 1000PF	K J K	Q KP	
C98 C99 ,100 C102 C102 C103			CC73FSL1H101J CC73FSL1H471J CC73FSL1H181J CK73FB1H102K CC73FSL1H101J	CHIP C CHIP C CHIP C CHIP C CHIP C	100PF 470PF 180PF 1000PF 100PF	J K J	KP KPQ KP Q KP	
CN1 CN2 J1 J1 WH2	2C 2C	*	E40-9831-05 E40-4871-05 E70-0079-05 E70-0080-05 E89-0001-05	SOCKET FOR PIN PIN ASSY LOCK TERMINAL LOCK TERMINAL FINISHED WIRE	BOARD (AN	1T) 1T)	KPTE KP TEQ TEQ	

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05VR/KR-V5090

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Ref. No	Add- ress	New Parts	Parts No.		escription			Desti- nation	Re- marks
J2 J2		*	F10-1074-04 F10-1075-04	SHIELDING PLAT	E			KP TEQ	
CF1 ,2 CF1 ,2 L31 L31 L32		*	L72-0536-05 L72-0596-05 L30-0910-05 L30-0929-05 L30-0930-05	CERAMIC FILTER CERAMIC FILTER FM IFT FM IFT FM IFT	3			TEQ KP KP TEQ TEQ	
L33 L34 L35 ,36 L61 L62		*	L30-0911-05 L79-1240-05 L79-1239-05 L40-1091-17 L39-1351-05	AM IFT LC FILTER LC FILTER SMALL FIXED IND COMBINATION C	DUCTOR(11 OIL	JH)		TEQ TE	
L63 X31 X81		*	L40-1001-17 L78-0295-05 L77-2187-05	SMALL FIXED IND RESONATOR CRYSTAL RESON	(456KHZ)	()	TEQ	
R1 R2 R3 R3 R4		-	RD14NB2E101J RK73EB2B221J RK73FB2A331J RK73FB2A332J RK73FB2A681J	RD CHIP R CHIP R CHIP R CHIP R	100 220 330 3.3K 680	1	1/4W 1/8W 1/10W 1/10W 1/10W	KP TEQ	
R5 R6 R6 R6 R7			RK73FB2A331J RK73FB2A100J RK73FB2A220J RK73FB2A470J RK73FB2A332J	CHIP R CHIP R CHIP R CHIP R CHIP R	330 10 22 47 3.3K	7 1 1 1	1/10W 1/10W 1/10W 1/10W 1/10W	KP TE Q	
R8 R10 R11 R12 R13 ,14			RK73FB2A331J RK73FB2A332J RK73FB2A681J RK73FB2A122J RK73FB2A331J	CHIP R CHIP R CHIP R CHIP R CHIP R	330 3.3K 680 1.2K 330	J	1/10W 1/10W 1/10W 1/10W 1/10W	TEQ TEQ TEQ TEQ	
R15 R16 R17 R18 R19			RK73FB2A101J RK73FB2A220J RK73FB2A621J RK73FB2A123J RK73FB2A4R7J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 22 620 12K 4.7	J	1/10W 1/10W 1/10W 1/10W 1/10W	TEQ TEQ TEQ TEQ TEQ	
R20 R22 R30 R31 R32			RK73FB2A122J RK73FB2A101J RK73FB2A681J RS14KB3A820J RK73EB2B562J	CHIP R CHIP R CHIP R FL-PROOF RS CHIP R	1.2K 100 680 82 5.6K	7	1/10W 1/10W 1/10W 1W 1W	TEQ KP	
R33 R34 R35 R35 ,36 R36			RK73FB2A302J RK73FB2A822J RK73FB2A392J RK73FB2A333J RK73FB2A243J	CHIP R CHIP R CHIP R CHIP R CHIP R	3.0K 8.2K 3.9K 33K 24K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W	KP TEQ KP	
R37 R37 R37 R38			RK73FB2A272J RK73FB2A302J RK73FB2A362J RK73FB2A333J	CHIP R CHIP R CHIP R CHIP R	2.7K 3.0K 3.6K 33K	J J J	1/10W 1/10W 1/10W 1/10W	Q TE KP	
R39 R39 R40 R41 R42			RK73FB2A223J RK73FB2A473J RK73FB2A332J RK73FB2A222J RK73FB2A473J	CHIP R CHIP R CHIP R CHIP R CHIP R	22K 47K 3.3K 2.2K 47K)))	1/10W 1/10W 1/10W 1/10W 1/10W	KP TEQ TEQ TEQ TEQ	

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	Ref. No	Add- ress	New Parts	Parts No.		Description			Desti- nation	Re- marks
	R43 ,44 R43 ,44 R45 ,46 R45 ,46 R47 ,48			RK73FB2A222J RK73FB2A392J RK73FB2A122J RK73FB2A332J RK73FB2A392J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.2K 3.9K 1.2K 3.3K 3.9K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W	TEQ KP TE KP TE	
	R47 ,48 R49 R51 R52 R53			RK73FB2A393J RK73FB2A473J RK73FB2A102J RK73FB2A104J RK73FB2A102J	CHIP R CHIP R CHIP R CHIP R CHIP R	39K 47K 1.0K 100K 1.0K	j J J J	1/10W 1/10W 1/10W 1/10W 1/10W	KP TEQ TEQ TEQ	
	R54 R55 R56 R59 R67			RK73FB2A683J RK73FB2A473J RK73FB2A104J RK73FB2A222J RK73FB2A104J	CHIP R CHIP R CHIP R CHIP R CHIP R	68K 47K 100K 2.2K 100K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W	TEQ TEQ TEQ TEQ	
	R80 R81 -83 R84 R85 -87 R85 -88			RK73EB2B102J RK73FB2A102J RK73FB2A103J RK73FB2A102J RK73FB2A102J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 1.0K 10K 1.0K 1.0K)))	1/8W 1/10W 1/10W 1/10W 1/10W	KP TEQ	
Δ	R88 R89 R90 R91 R91			RK73FB2A103J RD14NB2E101J RK73FB2A562J RK73FB2A102J RK73FB2A222J	CHIP R RD CHIP R CHIP R CHIP R	10K 100 5.6K 1.0K 2.2K)))	1/10W 1/4W 1/10W 1/10W 1/10W	KP KP TEQ	
Δ	R92 R93 R94 R101,102 R103			RK73FB2A123J RK73FB2A122J RD14NB2E561J RK73FB2A102J RK73FB2A821J	CHIP R CHIP R RD CHIP R CHIP R	12K 1.2K 560 1.0K 820	J J	1/10W 1/10W 1/4W 1/10W 1/10W	KPTE KPTE	
	R104 R105 W51 -55 W56 -58 W59			RK73FB2A473J RK73FB2A822J R92-0670-05 R92-0679-05 R92-0670-05	CHIP R CHIP R CHIP R CHIP R CHIP R	47K 8.2K 0 OHM 0 OHM 0 OHM	J J	1/10W 1/10W	KPTE KPTE	
	W60 W61 W62 -65 W66 W67			R92-0679-05 R92-0670-05 R92-0679-05 R92-0670-05 R92-0679-05	CHIP R CHIP R CHIP R CHIP R CHIP R	0 OHM 0 OHM 0 OHM 0 OHM 0 OHM			TEQ TEQ	
	W68 W69 -71 W72 -74 W72 ,73 W75 -77			R92-0670-05 R92-0679-05 R92-0670-05 R92-0670-05 R92-0670-05	CHIP R CHIP R CHIP R CHIP R CHIP R	0 OHM 0 OHM 0 OHM 0 OHM 0 OHM			KP TE KPQ Q	
	W76 ,77 W79 W80 W81 W82 W83 -85 W86 ,87			R92-0670-05 R92-0679-05 R92-0670-05 R92-0679-05 R92-0670-05 R92-0670-05 R92-0670-05	CHIP R CHIP R CHIP R CHIP R CHIP R CHIP R CHIP R	0 OHM 0 OHM 0 OHM 0 OHM 0 OHM 0 OHM			KP Q KPTE KP	
	D1 D31 D32 D33 D61 ,62			1SS133 MTZJ8.2(B) MA111 1SS133 1SS133	DIODE ZENER DIODE DIODE DIODE DIODE				TEQ TEQ	

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Ref. No	Add- ress	New Parts	Parts No.	De	scription		Dești- nation	Re- marks
D81 D101 IC1 IC2 IC3			MTZJ5.1(B) MTZJ3.3(B) LA1836 LC72131 NJM2904M	ZENER DIODE ZENER DIODE ANALOGUE IC MOS-IC IC(OP AMP X2)			KPTE TEQ	
01 01 ,2 03 031 ,32 032			2SC2714(R,O) 2SC2714(R,O) 2SA1576A(R,S) 2SC4081(R,S) 2SC4081(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR			KP TEQ TEQ TEQ KP	
Q81 Q101,102 Q103			2SA1576A(R,S) 2SD1328 2SA1576A(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR			KPTE KPTE	
A1 A1 A1			W02-2539-05 W02-2565-05 W02-2579-05	FM FRONT-END A FM FRONT-END A FM FRONT-END A	SSY		KP TE Q	
		-	AUD	IO(X09-452	0-10)			
D131-133		*	B30-2493-05	LED(RED)				
C2 -4 C5 C6 C7 C8			CK45FF1H103Z CE04EW1E331M CK45FB1H102K CE04LW1A470M CK45FF1H103Z	CERAMIC ELECTRO CERAMIC ELECTRO CERAMIC	0.010UF 330UF 1000PF 47UF 0.010UF	Z 25WV K 10WV Z	KP KP KP KP KP	
C9 C10 C11 ,12 C17 ,18 C19		*	CE04LW1V4R7M CK45FF1H103Z C91-1564-05 C90-3580-05 CK45FF1H103Z	ELECTRO CERAMIC MF-C ELECTRO CERAMIC	4.7UF 0.010UF 0.22UF 4700UF 0.010UF	35WV Z J 63WV Z	KP TEQ	
C20 C20 C22 C23 C25			CE04LW1H221M CE04LW1J470M CE04LW1V100M CK45FF1H103Z CE04LW1V222M	ELECTRO ELECTRO ELECTRO CERAMIC ELECTRO	220UF 47UF 10UF 0.010UF 2200UF	50WV 63WV 35WV Z 35WV	TEQ KPYMVX	
C27 C28 C29 C33 C35			CE04LW1V470M CE04LW1H470M CK45FB1H102K CE04LW1C470M CK45FB1H102K	ELECTRO ELECTRO CERAMIC ELECTRO CERAMIC	47UF 47UF 1000PF 47UF 1000PF	35WV 50WV K 16WV K		
C36 C39 C40 C40 C41		i i	CE04LW1C470M CE04LW1C470M CE04LW1C100M CE04LW1C100M CE04LW1A221M	ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	47UF 47UF 10UF 10UF 220UF	16WV 16WV 16WV 16WV	Q YMVXTE Q	
C41 C41 C43 ,44		:	CE04LW1A221M CE04LW1C100M CK45FF1H103Z	ELECTRO ELECTRO CERAMIC	220UF 10UF 0.010UF	10WV 16WV Z	YMVXTE KP	
C45 C47 C48 C49 C51 ,52			CE04LW1C470M CE04LW1C470M CE04LW1V4R7M CE04LW1A221M CC45FSL1H470J	ELECTRO ELECTRO ELECTRO ELECTRO CERAMIC	47UF 47UF 4.7UF 220UF 47PF	16WV 16WV 35WV 10WV J	Q	
C51 ,52 C53 ,54 C53 ,54			CC45FSL1H470J CE04LW1C100M CE04LW1C100M	CERAMIC ELECTRO ELECTRO	47PF 10UF 10UF	J 16WV 16WV	YMVXTE Q YMVXTE	ŀ

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C55 ,56 C55 ,56 C57 ,58 C59 C59 ,60			CC45FSL1H470J CC45FSL1H470J CC45FSL1H221J CK45FF1H103Z CK45FF1H103Z	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	47PF 47PF 220PF 0.010UF 0.010UF	J J Z Z	Q YMVXTE KP Q	
C59 ,60 C61 ,62 C63 ,64 C65 ,66 C67 ,68			CK45FF1H103Z CC45FSL1H220J CE04LW1C100M CC45FSL1H221J CE04LW1A101M	CERAMIC CERAMIC ELECTRO CERAMIC ELECTRO	0.010UF 22PF 10UF 220PF 100UF	Z J 16WV J 10WV	YMVXTE	
069 ,70 071 ,72 073 ,74 075 ,76 077 -80			CK45FB1H102K CQ92FM1H123J CQ92FM1H332J CE04LW1V4R7M CK45FF1H472Z	CERAMIC MYLAR MYLAR ELECTRO CERAMIC	1000PF 0.012UF 3300PF 4.7UF 4700PF	K J J 35WV Z	TEQ	
081 082 083 084 -87 088			CQ92FM1H223J CQ92FM1H473J CE04LW1A221M CE04LW1C100M CE04LW1A221M	MYLAR MYLAR ELECTRO ELECTRO ELECTRO	0.022UF 0.047UF 220UF 10UF 220UF	J J 10WV 16WV 10WV		
089 ,90 091 092 093 094			CF92FV1H104J CE04LW1HR47M CE04LW1V4R7M CE04LW1HR47M CE04LW1V4R7M	MF-C ELECTRO ELECTRO ELECTRO ELECTRO	0.10UF 0.47UF 4.7UF 0.47UF 4.7UF	J 50WV 35WV 50WV 35WV		
C95 C96 C97 ,98 C99 C100			CF92FV1H154J CE04LW1H3R3M CF92FV1H154J CE04LW1H3R3M CF92FV1H154J	MF-C ELECTRO MF:C ELECTRO MF-C	0.15UF 3.3UF 0.15UF 3.3UF 0.15UF	J 50WV J 50WV		
C101 C102 C103 C104 C105,106			CE04LW1V4R7M CE04LW1HR47M CE04LW1V4R7M CE04LW1HR47M CF92FV1H104J	ELECTRO ELECTRO ELECTRO ELECTRO MF-C	4.7UF 0.47UF 4.7UF 0.47UF 0.10UF	35WV 50WV 35WV 50WV J		
C107 C108 C110 C111 C111			CE04LW1C470M CF92FV1H474J CQ92FM1H681J CK45FB1H102K CE04LW1C100M	ELECTRO MF-C MYLAR CERAMIC ELECTRO	47UF 0.47UF 680PF 1000PF 10UF	16WV J J K 16WV		
C118 C120 C121 C124,125 C127			CF92FV1H474J CE04LW1H4R7M CE04HW1E4R7M CE04LW1C100M CK45FF1H103Z	MF-C ELECTRO NP-ELEC ELECTRO CERAMIC	0.47UF 4.7UF 4.7UF 10UF 0.010UF	J 50WV 25WV 16WV Z		
C129 C130 C131 C133 C134			CK45FB1H102K CE04LW1H2R2M CE04LW1HR33M CE04LW1A221M CE04LW1HR47M	CERAMIC ELECTRO ELECTRO ELECTRO ELECTRO	1000PF 2.2UF 0.33UF 220UF 0.47UF	K 50WV 50WV 10WV 50WV		
C135 C136 C137 C138 C141,142			CQ92FM1H823J CQ92FM1H332J CQ92FM1H823J CE04LW1A221M CE04LW1C100M	MYLAR MYLAR MYLAR ELECTRO ELECTRO	0.082UF 3300PF 0.082UF 220UF 10UF	J J 10WV 16WV		

L : Scandinavia

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C145,146 C155 C156 C159 C161,162			CE04LW1C220M CE04LW1C100M CE04LW1C470M CE04LW1C100M CE04LW1H010M	ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	22UF 10UF 47UF 10UF 1.0UF	16WV 16WV 16WV 16WV 50WV		
C163-166 C167,168 C169,170 C171,172 C173,174		*	CE04LW1H3R3M CQ92FM1H683J CE04LW1HR22M CQ92FM1H153J C91-1561-05	ELECTRO MYLAR ELECTRO MYLAR FILM	3.3UF 0.068UF 0.22UF 0.015UF 0.82UF	50WV 50WV J J		
0175,176 0177,178 0179,180 0181,182 0183			CQ92FM1H222J CE04LW1H0R1M CQ92FM1H472J CE04LW1H3R3M CE04LW1C470M	MYLAR ELECTRO MYLAR ELECTRO ELECTRO	2200PF 0.1UF 4700PF 3.3UF 47UF	J 50WV J 50WV 16WV		
C184 C185 C186 C189,190 C191			CE04LW1HR47M CQ92FM1H472J CE04LW1HR47M CE04LW1H010M CK45FB1H102K	ELECTRO MYLAR ELECTRO ELECTRO CERAMIC	0.47UF 4700PF 0.47UF 1.0UF 1000PF	50WV J 50WV 50WV K		
0201,202 0203,204 0205,206 0207,208 0209			CE04LW1V4R7M CK45FB1H391K CE04LW1A101M CE04LW1H101M CE04HW1A470M	ELECTRO CERAMIC ELECTRO ELECTRO NP-ELEC	4.7UF 390PF 100UF 100UF 47UF	35WV K 10WV 50WV 10WV		
C211,212 C213,214 C215,216 C251,252 C253,254			CK45FF1H103Z CF92FV1H104J CE04LW1H010M CE04LW1V4R7M CK45FB1H391K	CERAMIC MF-C ELECTRO ELECTRO CERAMIC	0.010UF 0.10UF 1.0UF 4.7UF 390PF	Z J 50WV 35WV K		
0255,256 0257 0258 0261,262 0263,264			CE04LW1C330M CE04LW1H221M CE04LW1H101M CK45FF1H103Z CF92FV1H104J	ELECTRO ELECTRO ELECTRO CERAMIC MF-C	33UF 220UF 100UF 0.010UF 0.10UF	16WV 50WV 50WV Z J		
0301,302 0303,304 0305,306 0307-310 0451-462			CE04LW1H010M CE04LW1C100M CE04LW1H4R7M CE04LW1C100M C91-0745-05	ELECTRO ELECTRO ELECTRO ELECTRO CERAMIC	1.0UF 10UF 4.7UF 10UF 100PF	50WV 16WV 50WV 16WV K	TEQ	
0463,464 0465,466 0467,468 0469,470 0471			CE04LW1H2R2M C91-0753-05 CE04LW1C220M CK45FF1H103Z C91-0757-05	ELECTRO CHIP C ELECTRO CERAMIC CERAMIC	2.2UF 470PF 22UF 0.010UF 1000PF	50WV K 16WV Z K		
0501 0502,503 0504,505 0506			C91-0769-05 C90-3253-05 C91-0769-05 C90-1827-05 C90-1827-05	CERAMIC ELECTRO CERAMIC ELECTRO ELECTRO	0.010UF 1.0UF 0.010UF 0.047F 0.047F	K 50WV K 5.5WV 5.5WV	Q YMVXTE	
C506 C507 C508 C509,510 C511,512			C90-3216-05 C90-3214-05 C91-0769-05 C91-0745-05 C90-3214-05	ELECTRO ELECTRO CERAMIC CERAMIC ELECTRO	330UF 100UF 0.010UF 100PF 100UF	6.3WV 6.3WV K K 6.3WV	KP	

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	Ref. No	Add- ress	New	Parts No.	De	escription			Desti- nation	Re- mark
	C513-516 C520 C521-525 C527,528			C91-0745-05 C91-0745-05 C91-0769-05 CK45FB1H471K	CERAMIC CERAMIC CERAMIC CERAMIC	100PF 100PF 0.010UF 470PF	K K K K		TEQ	iller A
	CN11 CN16 CN17 CN18 CN21			E40-4245-05 E40-4918-05 E40-9848-05 E40-9888-05 E40-4956-05	PIN ASSY FLAT CABLE CON PIN ASSY PIN ASSY FLAT CABLE CON				KP	
Δ	CN22 J1 J2 J3 J3	1B 2C 2C 2C 2C	* *	E40-9906-05 E03-0316-05 E63-0195-05 E63-0196-05 E63-0196-05	SOCKET FOR PIN AC OUTLET PHONO JACK PHONO JACK PHONO JACK	ASSY			KP Q YMVXTE	
:	J4 J6 J7 J8 J10 ,11	2C 2C 2C 1A 1C	* * *	E11-0347-05 E70-0081-05 E70-0082-05 E11-0295-05 E63-0194-05	MINIATURE PHON LOCK TERMINAL I LOCK TERMINAL I PHONE JACK PHONO JACK	BOARD `)		ī	-
Δ Δ	F1 F6 F6 F6		*	F50-0073-05 F50-0066-05 F50-0096-05 F50-0108-05	FUSE(5X20) FUSE(5X20) FUSE(5X20) FUSE(5X20)	4A,125V 1A,125V 1AL,250V 1A,250V			KP KP YMXTEQ V	
	CN1 -4 CN3 ,4 CN3 ,4 J9 J12 -14			J13-0075-05 J13-0075-05 J13-0075-05 J11-0809-05 J11-0809-05	FUSE CLIP FUSE CLIP FUSE CLIP WIRE CLAMPER WIRE CLAMPER				KP Q YMVXTE	
Δ	L1 ,2 T1 X1 X10 X10			L39-0085-05 L07-2127-05 L78-0290-05 L78-0290-05 L78-0605-05	PHASE COMPENS POWER TRANSFO RESONATOR RESONATOR RESONATOR				KP TEQ KPYMVX	
◮	R1 R2 R12			R92-1844-05 RD14NB2E332J RD14NB2E330J	CARBON COMPO RD RD	3.3M 3.3K 33	J J	1/2W 1/4W 1/4W	KP KP KP	
∆ ∆ ∆	R12 R19			RD14NB2E4R7J RD14NB2E4R7J RD14NB2E101J RS14KB3D271J RS14KB3D271J	RD RD RD FL-PROOF RS FL-PROOF RS	4.7 4.7 100 270 270	1111	1/4W 1/4W 1/4W 2W 2W	Q YMVXTE Q YMVXTE	
☆ ☆ ☆	R23 R25 R28 -30 R37 R38			RS14KB3D331J RS14KB3D272J RS14KB3D331J RS14KB3A100J RS14KB3D271J	FL-PROOF RS FL-PROOF RS FL-PROOF RS FL-PROOF RS FL-PROOF RS	330 2.7K 330 10 270	7	2W 2W 2W 1W 2W	KP YMVX	
Δ Δ	R39 ,40 R107 R140 R141,142 R211			RD14NB2E101J RD14NB2E4R7J RS14KB3D472J RS14KB3D471J RD14NB2E470J	RD RD FL-PROOF RS FL-PROOF RS RD	100 4.7 4.7K 470 47	7777	1/4W 1/4W 2W 2W 1/4W		
	R213,214 R215,216 R225,226 R231,232			R92-1771-05 RD14NB2E332J RS14KB3D4R7J RD14NB2E100J	METAL PLATE RD FL-PROOF RS RD	0.22 3.3K 4.7 10	J	2W 1/4W 2W 1/4W		

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[▲] indicates safety critical components.

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	Ref. No	Add- ress	New Parts	Parts No.	D	escription			Desti- nation	Re- marks
.t.	R261,262 R263,264 R265,266 R275,276 R519,520			RD14NB2E470J R92-1771-05 RD14NB2E332J RS14KB3D4R7J RD14NB2E221J	RD METAL PLATE RD FL-PROOF RS RD	47 0.22 3.3K 4.7 220	7)	1/4W 2W 1/4W 2W 1/4W		
	R522			RD14NB2E100J	RD	10	j	1/4W		
. 1 .	K1 K2 ,3 S1 S101-128 S130-132	2C	*	\$76-0057-05 \$76-0056-05 \$62-0034-05 \$70-0031-05 \$70-0031-05	MAGNETIC RELA MAGNETIC RELA SLIDE SWITCH TACT SWITCH TACT SWITCH				KP TEQ	
	S132			S70-0031-05	TACT SWITCH				KPYMVX	
	S133 S134			T99-0559-05 T99-0571-05	ROTARY ENCOD ROTARY ENCOD					
1. 1.	D6			1SS131 S5688B 1SR139-400 MTZJ6.2(B) 1SS131	DIODE DIODE DIODE ZENER DIODE DIODE				KP KP KP KP KP	
1	D10 D11			MTZJ2.7(B) 1SS131 RBV-602LFA S5688B 1SR139-400	ZENER DIODE DIODE DIODE DIODE DIODE				KP	
<u>†</u>	D13 D14 D14 D15 D16			MTZJ5.1(B) S5688B 1SR139-400 1SS131 MTZJ15(B)	ZENER DIODE DIODE DIODE DIODE ZENER DIODE					
1				MTZJ3.9(B) MTZJ15(B) S5688B 1SR139-400 MTZJ11(B)	ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE					
	D24 D25 D26 ,27 D26 ,27 D27	-		MTZJ2.7(B) 1SS131 MTZJ5.1(B) MTZJ5.1(B) MTZJ5.1(B)	ZENER DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE				Q YMVXTE KP	
	D29 D30 -34 D41 D51 ,52 D101-110			MTZJ10(B) 1SS131 1SS133 MTZJ11(B) 1SS133	ZENER DIODE DIODE DIODE ZENER DIODE DIODE					
	D111,112 D112 D112-121 D112,113 D114-121			1SS131 1SS131 1SS131 1SS131 1SS131	DIODE DIODE DIODE DIODE DIODE				YMV TE Q X TE	
	D115-121 D124 D127 ED1 IC1	A.C. Managary		1SS131 MTZJ5.6(B) 1SS133 FIP10DM6R NJM2279D	DIODE ZENER DIODE DIODE INDICATOR TUB IC(VIDEO IC)	E			KPYMVX Q	

	Ref. No	Add- ress	New Parts	Parts No.	De	scription		Dești- nation	Re- marks
	IC1 IC2 IC3 IC4 IC5		* *	NJM2279D LA2786 LV1016 TC9215AP M62430FP	IC(VIDEO IC) ANALOGUE IC DI BI-POLAR IC ANALOGUE IC ANALOGUE IC			YMVXTE	
Δ	IC6 ,7 IC8 IC18 IC19 IC21		*	STK499-070 NJM4580D-D NJU7313AL NJM4565D-D CXP82532-151Q	HYBRID IC IC(OP AMP X2) ANALOGUE IC IC(OP AMP X2) MI-COM IC			KPYMVX	
1 1	IC21 IC22 IC23 Q1 Q2		*	CXP82540-152Q S-806D-Z X24C04P 2SC3940A(R,S) 2SC2003(L,K)	MI-COM IC ANALOGUE IC MEMORY IC TRANSISTOR TRANSISTOR			TEQ TEQ KP KP	
Δ Δ Δ	Q12 Q13 Q14 Q15 Q16		*	2SA1534A(R,S) 2SD2525 2SB1640 2SC1740S(Q,R) 2SA933AS(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				
Δ	Q17 Q18 Q19 Q21 -24 Q25			2SC1740S(Q,R) 2SC2878(B) 2SC3940A(R,S) 2SC2878(B) 2SA992(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR				
	Q26 ,27 Q28 Q29 ,30 Q101,102 Q103-105			2SC1845(F,E) DTC113ZSA 2SA933AS(Q,R) 2SC1740S(Q,R) DTC143TSA	TRANSISTOR DIGITAL TRANSIST TRANSISTOR TRANSISTOR DIGITAL TRANSIST				
1	Q107 Q201,202 Q203,204 Q205 Q206		*	2SA933AS(Q,R) 2SC2878(B) 2SC1845(F,E) 2SA992(F,E) DTA113ZSA	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSIST	TOR		YMV	e care
	Q251,252 Q253,254 Q301,302			2SC2878(B) 2SC1845(F,E) 2SC2878(B)	TRANSISTOR TRANSISTOR TRANSISTOR				
	A1		*	W02-2583-05	OPTIC RECEIVING				
			S	UB(X13-749			type	т	
Δ	C1 C2 C3 C4 C5			CK45FF1H103Z C91-1488-05 CE04EW1E331M CE04LW1A470M CE04LW1V4R7M	CERAMIC MF ELECTRO ELECTRO ELECTRO	0.010UF 6800PF 330UF 47UF 4.7UF	Z 250VAC 25WV 10WV 35WV		
Δ	C6 ,C6 ,7 ,C8 ,9 ,C10 ,C15			C91-1488-05 C91-1488-05 CK45FF1H103Z CK45FB1H102K CK45FF1H103Z	MF MF CERAMIC CERAMIC CERAMIC	6800PF 6800PF 0.010UF 1000PF 0.010UF	250VAC 250VAC Z K Z	MVXTEQ	
	C50 ,51 C101 C102 C103			CK45FB1H471K CK45FF1H103Z CE04LW1H2R2M CC45FSL1H331J	CERAMIC CERAMIC ELECTRO CERAMIC	470PF 0.010UF 2.2UF 330PF	K Z 50WV J	TEQ TEQ TEQ TEQ	

X: Australia M: Other Areas

105VR/KR-V5090

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PARTS LIST

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	Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
	C104 C105 C106 C107,108 C109			CK45FB1H561K CC45FCH1H470J CC45FCH1H220J CK45FF1H103Z CE04LW1V470M	CERAMIC 560PF K CERAMIC 47PF J CERAMIC 22PF J CERAMIC 0.010UF Z ELECTRO 47UF 35WV	TEQ TEQ TEQ TEQ TEQ	
Δ	C110 CN1 CN4 CN10 J1	18		CK45FF1H103Z E40-4245-05 E40-4294-05 E40-4295-05 E03-0109-05	CERAMIC 0.010UF Z PIN ASSY FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR AC OUTLET	TEQ TEQ T	
◮	J1 J1 J1 J1	18 18 18 18		E03-0305-05 E03-0316-05 E03-0325-05 E03-0337-05	AC OUTLET AC OUTLET AC OUTLET AC OUTLET	MEQ Y X V	
$\Delta \Delta $			* *	F50-0098-05 F50-0110-05 F50-0098-05 F50-0100-05	FUSE(5X20) FUSE(5X20) FUSE(5X20) FUSE(5X20)	XTEQ V YM EQ	
	CN2 ,3 CN6 ,7 CN8 ,9			J13-0075-05 J13-0075-05 J13-0075-05	FUSE CLIP FUSE CLIP FUSE CLIP	YM EQ	
◮	L101 L102 T1			L40-1091-17 L40-1001-17 L07-2128-05	SMALL FIXED INDUCTOR(1UH) SMALL FIXED INDUCTOR(10UH,K) POWER TRANSFORMER	TEQ TEQ YM	
Δ	T1 X1		*	L07-2129-05 L77-2206-05	POWER TRANSFORMER CRYSTAL RESONATOR(4.332MHZ)	VXTEQ TEQ	
Δ Δ	K1 S1 S2	1B 1C		\$76-0044-05 \$68-0056-05 \$31-3010-05	MAGNETIC RELAY PUSH SWITCH SLIDE SWITCH	MVXTEQ YM	
Δ	D1 -4 D1 -4 D5 D6 ,7 D8			S5688B 1SR139-400 MTZJ6.2(B) 1SS131 MTZJ2.7(B)	DIODE DIODE ZENER DIODE DIODE ZENER DIODE		
Δ	D10 IC5 Q1 Q2			1SS133 SAA6579 2SC3940A(R,S)	DIODE ANALOGUE IC TRANSISTOR	TEQ	
	Q6			DTC124ESA	TRANSISTOR DIGITAL TRANSISTOR	TEQ	

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105VR/KR-V5090

SPECIFICATIONS

105VR for U.S.A and Canada

Audio section

Rated power output at the STEREO operation

50 watts per channel minimum RMS, both channels driven at 8 Ω , from 40 Hz to 20,000 Hz with no more than 0.8 % total harmonic distortion. (FTC)

Power output at the SURROUND operation

Front

50 watts per channel minimum RMS, both channels driven, at 8 Ω , 1 kHz with no more than 0.8 % total harmonic distortion.

Center

50 watts minimum RMS at 8 Ω , 1 kHz with no more than 0.8 % total harmonic distortion.

Surround

50 watts minimum RMS, at 8 Ω , 1 kHz with no more than 0.8 % total harmonic distortion.

Total harmonic distortion0.	03% (1 kHz, 25 W, 8 Ω)
Signal to noise ratio (IHF'66)	
PHONO (MM)	75 dB
LINE (CD)	
Input sensitivity / impedance	
PHONO (MM)	3.0 mV / 47 kΩ
CD	
Tone controls	,
BASS	± 8 dB (at 100 Hz)
MIDDLE	
TREBLE	
N.B. circuit	
14.D. MIVUIT	

FM Tuner section
Tuning frequency range 87.5 MHz ~ 108 MHz
Usable sensitivity
MONO 1.3 μV (at 75 Ω) / 13.2 dBf
(75 kHz dev., SINAD 30 dB)
50 dB quieting sensitivity
STEREO
Total harmonic distortion (1 kHz)
MONO 0.5 % (65 dBf input)
STEREO
Signal to noise ratio (1 kHz 75 kHz dev.)
MONO 75 dB (65 dBf input)
STEREO 68 dB (65 dBf input)
Stereo separation(1 kHz)
Selectivity (IHF ±400 kHz)
Frequency response 30 Hz ~15 kHz, + 0.5 dB, - 3.0 dB
······································
AM Tuner section
AM Tuner section
Tuning frequency range 530 kHz ~ 1,700 kHz
Tuning frequency range 530 kHz ~ 1,700 kHz Usable sensitivity (30 % mod., S/N 20 dB)
Tuning frequency range

105VR/KR-V5090

SPECIFICATIONS

FM Tuner section

KR-V5090

Audio section Rated power output at the STEREO operation

50 watts per channel minimum RMS, both channels driven at 8 Ω , from 40 Hz to 20,000 Hz with no more than 0.7 % total harmonic distortion. (FTC)

total nar	monic distortion. (FTC)	
1 kHz, 10 '	% THD at 8 Ω70	0 W + 70 W
(DIN/IEC)	from 63 Hz to 12,500 Hz,	•
0.7 % T.I	.H.D., at 8 Ω5	0 W + 50 W
	tput at the Surround operation	
Front		0 W + 50 W
Center	(1 kHz, 0.7 % T.H.D. at 8 Ω)	50 W
	nd (1 kHz, 0.7 % T.H.D. at 8 Ω)	
Front	(1 kHz, 10 % T.H.D. at 8 Ω) 7	0 W + 70 W
Center	(1 kHz, 10 % T.H.D. at 8 Ω)	70 W
Surroun	rd (1 kHz, 10 % T.H.D. at 8 Ω)	70 W
Total harn	monic distortion (1 kHz, 8 Ω) 0.03	% at 25 W
Signal to	noise ratio (IHF'66)	
PHONO	(MM)	75 dB
CD		94 dB
Input sens	sitivity / impedance	
PHONO	(MM) 3.0 t	mV / 47 kΩ
CD	220 :	mV / 47 kΩ
Tone cont		
BASS	± 8 dB	(at 100 Hz)
	± 8 dB	
TREBLE	± 8 dB	(at 10 kHz)
	it + 5	
Video sec	ction	

Note:

We follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

VIDEO inputs / outputs (Composite) 1 Vp-p / 75 Ω

Component and circuity are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component... variations through use of parts list.

FM TUNET SECTION
Tuning frequency range 87.5 MHz~108 MHz Usable sensitivity
MONO 2.0 μV (at 75 Ω) / 17.2 dBf (75 kHz dev., SINAD 30 dB)
50 dB quieting sensitivity
STEREO
Total harmonic distortion (1 kHz)
MONO
STEREO
MONO
STEREO
Selectivity (IHF ± 400 kHz)
Stereo separation (1 kHz)
Frequency response 30 Hz ~ 15 kHz, + 0.5 dB, - 3.0 dB
AM Tuner section
Tuning frequency range
Tuning frequency range 9 kHz531 kHz ~ 1,602 kHz
Tuning frequency range 9 kHz531 kHz ~ 1,602 kHz 10 kHz530 kHz ~ 1,610 kHz
Tuning frequency range 9 kHz
Tuning frequency range 9 kHz
Tuning frequency range 9 kHz
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Tuning frequency range 9 kHz
Tuning frequency range 9 kHz
Tuning frequency range 9 kHz
Tuning frequency range 9 kHz
Tuning frequency range 9 kHz
Tuning frequency range 9 kHz

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150 Japan

KENWOOD SERVICE CORPORATION

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KENWOOD ELECTRONICS CANADA INC.

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